

TSD File Inventory Index

Date: April 25, 2002

Initial: CM Kurekko

Facility Name: <u>Lord Hotel Company (Steering Axle Plant)</u>		
Facility Identification Number: <u>MD 044 255 420</u>		
A.1 General Correspondence <u>A.1.1-A.1.8</u>	1	B.2 Permit Docket (B.1.2)
A.2 Part A / Interim Status <u>A.2</u>	1	.1 Correspondence
.1 Correspondence	Y	.2 All Other Permitting Documents (Not Part of the ARA)
.2 Notification and Acknowledgment	Y	C.1 Compliance - (Inspection Reports) <u>See C.2</u>
.3 Part A Application and Amendments	Y	C.2 Compliance/Enforcement <u>C.2</u>
.4 Financial Insurance (Sudden, Non Sudden)		.1 Land Disposal Restriction Notifications
.5 Change Under Interim Status Requests		.2 Import/Export Notifications
.6 Annual and Biennial Reports	Y	C.3 FOIA Exemptions - Non-Releasable Documents <u>C.3</u>
A.3 Groundwater Monitoring		D.1 Corrective Action/Facility Assessment
.1 Correspondence		.1 RFA Correspondence
.2 Reports <u>A.3.5</u>	1	.2 Background Reports, Supporting Docs and Studies
A.4 Closure/Post Closure		.3 State Prelim. Investigation Memos
.1 Correspondence <u>A.4.1-A.4.2-A.4.4</u>	1	.4 RFA Reports <u>D.1.4</u>
.2 Closure/Post Closure Plans, Certificates, etc <u>See A.4.1</u>		D.2 Corrective Action/Facility Investigation
A.5 Ambient Air Monitoring		.1 RFI Correspondence
.1 Correspondence		.2 RFI Workplan
.2 Reports		.3 RFI Program Reports and Oversight
B.1 Administrative Record		.4 RFI Draft /Final Report

Total - 8

.5 RFI QAPP		.7 Lab data, Soil Sampling/Groundwater	
.6 RFI QAPP Correspondence		.8 Progress Reports	
.7 Lab Data, Soil-Sampling/Groundwater <i>D.2.7</i>	<i>1</i>	D.5 Corrective Action/Enforcement	
.8 RFI Progress Reports		.1 Administrative Record 3008(h) Order	
.9 Interim Measures Correspondence		.2 Other Non-AR Documents	
.10 Interim Measures Workplan and Reports		D.6 Environmental Indicator Determinations	
D.3 Corrective Action/Remediation Study		.1 Forms/Checklists	
.1 CMS Correspondence		E. Boilers and Industrial Furnaces (BIF)	
.2 Interim Measures		.1 Correspondence	
.3 CMS Workplan		.2 Reports	
.4 CMS Draft/Final Report		F Imagery/Special Studies (Videos, photos, disks, maps, blueprints, drawings, and other special materials.)	
.5 Stabilization		G.1 Risk Assessment	
.6 CMS Progress Reports		.1 Human/Ecological Assessment	
.7 Lab Data, Soil-Sampling/Groundwater		.2 Compliance and Enforcement	
D.4 Corrective Action Remediation Implementation		.3 Enforcement Confidential	
.1 CMI Correspondence		.4 Ecological - Administrative Record	
.2 CMI Workplan		.5 Permitting	
.3 CMI Program Reports and Oversight		.6 Corrective Action Remediation Study	
.4 CMI Draft/Final Reports		.7 Corrective Action/Remediation Implementation	
.5 CMI QAPP		.8 Endangered Species Act	
.6 CMI Correspondence		.9 Environmental Justice	

Note: Transmittal Letter to Be Included with Reports.
Comments: _____

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
MARLENE J. FLUHARTY
GORDON E. GUYER
KERRY KAMMER
ELLWOOD A. MATTSON
O. STEWART MYERS
RAYMOND POUPORE

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

DAVID F. HALES, Director

S.E. MICHIGAN DISTRICT HEADQUARTERS

Waste Management Division

38980 Seven Mile Road

Livonia, MI 48152

December 14, 1990

Mr. R.A. Teppar
Plant Manager
Ford Motor Company Sterling Axle Plant
39000 Mound Road
Sterling Heights, MI 48310

RE: MID 044 255 420

Dear Mr. Teppar:

This letter is to acknowledge receipt of your letter dated November 15, 1990, indicating your compliance program for deficiencies cited during my inspection on October 26, 1990.

Concerning **Issue/Violation (I/V) 3**, I consider your response acceptable at this time and will evaluate the adequacy of your program during future inspections.

Concerning **I/V 1 and 2**, the time frame for the completion of your proposed upgrade (March 15, 1990) and assessment (April 15, 1990) of hazardous waste secondary containment in the Salvage Building **cannot be considered a timely response. Recall** that the MDNR inspectors essentially **first** want the current containment area cleaned up to clearly see whether the pad is impervious or free of cracks. We did not say the pad **was** in violation; we indicated that we could not determine it one way or another **until** obscuring material was removed. It is recommended that this cleanup be done **right now** and when finished **immediately** contact our office to arrange a **follow up inspection** of the pad. If MDNR does **not** find the containment satisfactory at this point, then the upgrade should proceed. In this instance, your facility has until **February 26, 1990** (120 days from the date of the inspection) to satisfactorily resolve I/V 1 and 2 as described in the MDNR letter of November 2, 1990. If not resolved by this time, the outstanding I/Vs shall be referred to the MDNR Compliance and Enforcement (C&E) Section for escalated enforcement.

RECEIVED
DEC 26 1990
OFFICE OF ACRA
Waste Management Division
U.S. REGION V

Page 2 of 2, 12/14/90

R. Tepper

MID 044 255 420

As a comment, I urge you to contact **Ms. Vicki Garon** of this office regarding the proposed refurbishing/upgrading of your Hazardous Waste Accumulation Area. Ms. Garon is a MDNR Civil Engineer and is quite knowledgeable concerning the planning, design, materials, construction, and evaluation of hazardous waste secondary containment systems. Ms. Garon inspects such systems for MDNR; therefore, you will find her comments and counsel appropriate prior to initiating work on your system.

We request your response by **January 9, 1990**, documenting your corrective actions to these outstanding issues/violations.

If you have any questions, please contact me at (313) 953-0241. Ms. Garon can also be reached at this number.

Sincerely,



Michael K. Busse
Environmental Quality Analyst

MKB:mkb

cc: B. Okwumabua
Vicki Garon
U.S. EPA, Region V

EPA

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

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DEPARTMENT OF NATURAL RESOURCES

DAVID F. HALES, Director

S.E. MICHIGAN DISTRICT HEADQUARTERS
Waste Management Division
38980 Seven Mile Road
Livonia, MI 48152

November 2, 1990

Mr. R.A. Tepper
Plant Manager
Ford Motor Company Sterling Axle Plant
39000 Mound Road
Sterling Heights, MI 48310

RE: MID 044 255 420

Dear Mr. Tepper:

On October 26, 1990, an inspection was conducted at your facility located at 39000 Mound Road, Sterling Heights, MI. The purpose of the inspection was to evaluate compliance of that facility with the requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended; Michigan's Hazardous Waste Management Act, Act 64 P.A. 1979, as amended; Michigan's Liquid Industrial Waste Hauling Act, Act 136, P.A. 1969, as amended; and Land Disposal Restriction requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended.

As a result of that inspection, the following issues/violations have been determined:

1. The inspectors could not determine if the base concrete pad of the Hazardous Waste Accumulation Area in the Salvage Building is impervious or free of cracks, as required by **40 CFR 264.175(b)(1)** in order to meet secondary containment requirements. It is apparent that the soil and debris obscuring portions of the pad must be removed before such a determination can be done. The facility is required to perform the necessary work to document compliance of this area with secondary containment requirements, and submit such documentation to this office.

Page 2 of 2, 11/2/90
R. Tepper
MID 044 255 420

2. The condition of the Salvage Building Hazardous Waste Accumulation Area concrete pad also prevented the inspectors from determining if the facility carries out proper hazardous waste accumulation practices in this Area, as required by **R 299.9306(1)(f)**. The facility is required to document how this Accumulation Area and its use conforms to proper practices in this respect, and to submit such documentation to this office.
3. Job descriptions of the facility hazardous waste workers are available on the Personnel Department computer system. As a suggestion, duplicating these descriptions and placing them in the hazardous waste personnel training records would enhance their accessibility to the Environmental Specialist and to Emergency Coordinators on an around-the-clock basis (all 3 shifts).

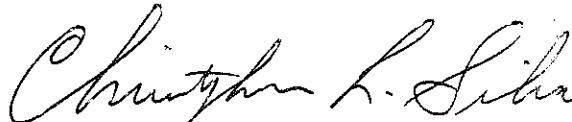
We request your response by **November 21, 1990**, documenting your corrective actions to these issues/violations.

If you have any questions, please contact us at (313) 953-0241.

Sincerely,



Michael K. Busse
Environmental Quality Analyst



Christopher Silva
Environmental Quality Analyst

Enclosure

cc: B. Okwumabua

U.S. EPA, Region V - **Land Ban Check List Only**

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

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ARLENE J. FLUHARTY
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DAVID D. OLSON
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HARRY H. WHITELEY

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

~~XXXXXXXXXXXX~~

Gordon E. Guyer, Director
S.E. Michigan Field Office
15500 Sheldon Road
Northville, MI 48167

October 31, 1986

Mr. K.W. Watler, Plant Manager
FMC, Sterling Axle Plant
39000 Mound Road
Sterling Heights, MI 48310-2799

RE: MID 044255420 ✓

Dear Mr. Watler,

This letter is to acknowledge receipt of your letter dated October 10, 1986 indicating your compliance program for RCRA deficiencies cited during my inspection of September 25, 1986. I consider your response acceptable at this time and will evaluate the adequacy of your program during future inspections.

Thank you for your cooperation. If you have any questions, please contact me at 313-459-9180.

Sincerely,

A handwritten signature in cursive script, reading "Larry AuBuchon".

Larry AuBuchon
Hazardous Waste Division

LA/bs

cc: U.S. EPA, Region V
B. Okwumabua



RECEIVED

OCT 15 1986

HAZARDOUS WASTE DIV

Transmission and Chassis Division
Ford Motor Company

Sterling Plant
39000 Mound Road
Sterling Heights, Michigan 48078

October 10, 1986

Mr. L. Aubuchon
Hazardous Waste Division
Michigan Dept. of Natural Resources
S.E. Michigan Field Office
15500 Sheldon Rd.
Northville, Michigan 48167

Subject: USEPA - RCRA Compliance Inspection Ford Motor Company (Sterling Plant) EPA I.D. No. MID044255420

Reference: Your Letter Dated September 30, 1986

Dear Mr. Aubuchon:

This letter is in response to your referenced letter and the alleged violation of 40 CFR 265.171 which resulted from your September 25, 1986 facility compliance inspection.

The two containers in question have not leaked into the containment structure as specified in your letter. The liquid on the floor was water. Subsequent investigation by plant personnel revealed two problems that could have contributed to the condition you observed - the roof drain, located overhead, was leaking at the downcomer; and there was a hole in the building's siding, up behind the overhead heater. The water on the floor was obviously a result of the continual recent rainfalls we were experiencing. Both of these items have been repaired by facilities maintenance personnel.

If you have any further questions, please contact Jack Garavanta, Environmental Engineer, at (313) 826-5789.

Very truly yours,

K. W. Watler
Plant Manager
Sterling Plant

STATE OF MICHIGAN



JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

~~XXXXXXXXXXXX~~

Gordon E. Guyer, Director
S.E. Michigan Field Office
15500 Sheldon Road
Northville, MI 48167

September 30, 1986

NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
MARLENE J. FLUHARTY
EPHEN V. MONSMA
J. STEWART MYERS
DAVID D. OLSON
RAYMOND POUPORE
HARRY H. WHITELEY

Mr. K. W. Watler, Plant Manager
FMC, Sterling Axle Plant
39000 Mound Road
Sterling Heights, MI 48310-2799

MID 044255420

Dear Mr. Watler,

On September 25, 1986, acting as a representative of the United States Environmental Protection Agency, I performed an inspection of your facility located at 39000 Mound Rd., Sterling Heights, MI. The purpose of this inspection was to evaluate compliance of that facility with the requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) as amended.

As a result of that inspection, it has been determined that two containers were in very poor condition and may have leaked into the containment structure which is not as required in 40 CFR 265.171.

You are requested to respond to this letter by October 13, 1986, providing documentation to this office regarding the actions taken to correct this violation.

If you have any questions, please contact me at 313-459-9180.

Sincerely,

A handwritten signature in cursive script that reads "Larry AuBuchon".

Larry AuBuchon
Hazardous Waste Division

LA/bs

cc: U.S. EPA, Region V
B. Okwumabua

RCRA Inspection Report

EPA Identification Number: M I D 0 4 4 2 5 5 4 2 0

Installation Name: FMC - Sterling Aisle Plant

Location Address: 39000 Mound Road

City: Sterling Heights State: Michigan 48310-2799

Date of inspection: 9/25/86 Time of inspection (from) 1245 (to) 2:30 p

Person(s) interviewed	Title	Telephone
<u>Jack Garavanta</u>	<u>Environmental Eng</u>	<u>(313) 977-5789</u>
<u>Al Sanborn</u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

Inspector(s)	Agency/Title	Telephone
<u>Larry Aubuchon</u>	<u>MDNR - HWD / EQA</u>	<u>(313) 459-9180</u>
<u></u>	<u></u>	<u></u>

Installation Activity (mark only one box) Inspection Form(s)

- | | |
|--|------|
| <input type="checkbox"/> Treatment/Storage/Disposal per 40 CFR 265.1 and/or Generation and/or Transportation | A |
| <input type="checkbox"/> Treatment/Storage/Disposal (no generation or Transportation) | A |
| <input type="checkbox"/> Generation and Transportation | B, C |
| <input checked="" type="checkbox"/> Generation only | B |
| <input type="checkbox"/> Transportation only | C |

US EPA
B. Okunmabua

INSPECTION FORM B

ction A: Scope of inspection

Standards for generators of HAZARDOUS WASTE subject to 40 CFR 262.10

Section B: MANIFEST REQUIREMENTS (Part 262, Subpart B)

Yes No NI* Remarks

- (1) Does the generator have copies of the manifest available for review? 262.40 X
- (2) Examine manifests for shipments in past 6 months. Indicate approximate number of manifested shipments during that period. 33
- (3) Do the manifest forms examined contain the following information? (If possible, make 262.21 copies of, or record information from, manifests that do not contain the critical elements)
 - a. Manifest document number? X
 - b. Name, mailing address, telephone number, and EPA ID number of generator? X
 - c. Name and EPA ID number of transporter(s)? X
 - d. Name, Address, and EPA ID Number of designated permitted facility and alternate facility? X
 - e. The description of the waste(s) (DOT shipping name, DOT hazard class, DOT identification number)? X
 - f. The total quantity of waste(s) and the type and number of containers loaded? X
 - g. Required certification? X
 - h. Required signatures? X
- (4) Reportable exceptions 262.42
 - a. For manifests examined in (2) (except for shipments within the last 35 days), enter the number of manifests for which the generator has NOT received a signed copy from the designated facility within 35 days of the date of shipment. 0
 - b. For manifests indicated in (4a), enter the number for which the generator has submitted exception reports (40 CFR 262.42) to the Regional Administrator. 0

Section C - PRE-TRANSPORT REQUIREMENTS
(40 CFR Part 262 Subpart C)

	Yes	No	NI	Remarks
(1) Is waste packaged in accordance with DOT regulations? (Required prior to movement of hazardous waste off-site) 262.30	___	___	___	<u>not ready for shipment</u>
(2) Are waste packages marked and labeled in accordance with DOT regulations concerning hazardous waste materials? (Required prior to movement of hazardous waste off-site) 262.31 and 262.32	___	___	___	↓ ↓ ↓ ↓
(3) If required, are placards available to transporter? 262.33	___	___	___	<u>transporter provides</u>
** (4) Pre-shipment Accumulation:				
** applies only to GENERATORS that store hazardous waste on-site for 90 days or less without a permit. These items do not apply to generators whose waste is immediately transported off-site.				
a. Is hazardous waste accumulated in containers? If no, skip to b. 262.34	<u>X</u>	___	___	___
i. Is each container clearly marked with the date on which the period of accumulation began?	<u>X</u>	___	___	___
ii. Have more than 90 days elapsed since the dates marked?	___	<u>X</u>	___	___
iii. Is each container labeled or marked clearly with the words "Hazardous Wastes?"	<u>X</u>	___	___	___
iv. Are containers in good condition?	___	<u>X*</u>	___	<u>2 containers = 0002 in storage area in poor condition - partly crushed</u>
v. Are containers compatible with waste in them?	<u>X</u>	___	___	___
vi. Are containers managed to prevent leaks?	___	<u>X*</u>	___	<u>* 2 containers above may have leaked - contained over</u>
vii. Are containers stored closed?	<u>X</u>	___	___	___
viii. Are containers inspected weekly for leaks and defects?	<u>X</u>	___	___	___
ix. Are ignitable and reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive).	<u>X</u>	___	___	<u>ignitable</u>

Yes No NI Remarks

- ix. Has the owner or operator observed the National Fire Protection Association's buffer zone requirements for tanks containing ignitable or reactive wastes?

Tank capacity: _____ gallons

Tank diameter: _____ feet

Distance of tank from property line _____ feet

(see tables 2-1 through 2-6 of NFPA's "Flammable and Combustible Liquids Code - 1977" to determine compliance.)

- c. Is hazardous waste accumulated in other than tanks or containers? _____ X _____

- d. Personnel training. 262.34 (a) 5

Do personnel training records include: 265.16

- i. Job Titles? X _____
- ii. Job Descriptions? X _____
- iii. Description of training? X _____
- iv. Records of training? X _____
- v. Did personnel receive the required training by 5-19-81? _____ X Not Inspected
- vi. Do new personnel receive required training within six months? _____ X Not Inspected
- vii. Do personnel training records indicate that personnel have taken part in an annual review of initial training? X _____

- e. Preparedness and Prevention 265. Subpart C

- i. Maintenance and Operation of Facility:

Is there any evidence of fire, explosion, or release of hazardous waste or hazardous waste constituent? 265.31 X* _____

* There was an accumulation of liquid in covered container structure. Appears to be combination of water from roof leak & wastes from 2 damaged acid containers.

Yes No NI Remarks

ii. If required, does this facility have the following equipment: 265.32

Internal communications or alarm systems?	<u>X</u>	___	___	___
Telephone or 2-way Radios at the scene of operations?	<u>X</u>	___	___	___
Portable fire extinguishers, fire control, spill control equipment and decontamination equipment?	<u>X</u>	___	___	___

Indicate the volume of water and/or foam available for fire control:

iii. Testing and Maintenance of Emergency Equipment: 265.33

Has the owner or operator established testing and maintenance procedures for emergency equipment?	<u>X</u>	___	___	___
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Is emergency equipment maintained in operable condition?	<u>X</u>	___	___	___
--	----------	-----	-----	-----

iv. Has owner/operator provided immediate access to internal alarms (if needed)?	<u>X</u>	___	___	___
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v. Is there adequate aisle space for unobstructed movement?	<u>X</u>	___	___	___
---	----------	-----	-----	-----

vi. Has the owner or operator attempted to make arrangements with local authorities in case of an emergency at the facility?	<u>X</u>	___	___	___
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f. Contingency Plan and Emergency Procedures 265 Subpart D

Does the contingency plan contain the following information:

1. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control and Countermeasures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.) 265.52	<u>X</u>	___	___	___
--	----------	-----	-----	-----

	Yes	No	NI	Remarks
ii. Arrangements agreed to by local police departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services, pursuant to §265.37?	<u>✓</u>	_____	_____	_____
iii. Names, addresses, and phone numbers (Office and Home) of all persons qualified to act as emergency coordinator.	<u>✓</u>	_____	_____	_____
iv. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list, and a brief outline of its capabilities?	<u>✓</u>	_____	_____	_____
v. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes and alternate evacuation routes?)	<u>✓</u>	_____	_____	_____
vi. Are copies of the Contingency Plan available at site and local emergency organizations?	<u>✓</u>	_____	_____	_____
vii. Is the facility emergency coordinator identified?	<u>✓</u>	_____	_____	_____
viii. Is coordinator familiar with all aspects of site operation and emergency procedures?	<u>✓</u>	_____	_____	_____
ix. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?	<u>✓</u>	_____	_____	_____
x. If an emergency situation has occurred at this facility, has the emergency coordinator followed the emergency procedures listed in 265.56?	<u>+</u>	_____	_____	<u>no emergency</u>

Section D: RECORDKEEPING AND REPORTING (Part 262, Subpart D)

Yes No NI Remarks

- (1) Are all test results and analyses needed for hazardous waste determinations retained for at least three years? 262.40

X _____

Section E: INTERNATIONAL SHIPMENTS (Part 262 Subpart E)

262.50

- (1) Has the installation imported or exported hazardous waste? If "no", skip a and b.

_____ X _____

a. Exporting Hazardous Waste, has a generator:

i. Notified the Administrator in writing?

ii. Obtained the signature of the foreign consignee confirming delivery of the waste(s) in the foreign country?

iii. Met the Manifest requirements?

b. Importing Hazardous Waste, has the generator met the manifest requirements?

Remarks:

The closing of the surface impoundments are proceeding as per the consent agreement. They are no longer considered regulated under the category of F006 wastes because of recent court action. Data also indicates that the waste is not characteristic either.

Waste oil was evaluated as non hazardous

Storage area contained 20 acid drums & 6 paint waste drums.

- Heat treat operation 1/yr generates D002 from process tanks
- D001 generated from paint/maintenance shop
- Went to a new paint which does not have chrome but does have barium. Does not appear to be HW but is currently handling as such & is re-testing

BEFORE THE
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

IN THE MATTER OF:

FORD MOTOR COMPANY
Sterling Axle Plant
39000 Mound Road
Sterling Heights, Michigan

MID 044 255 420

Docket No.
V-W-84-R-077

FINAL ORDER

WHEREAS, U.S. Environmental Protection Agency ("EPA") filed an administrative Complaint against Ford Motor Company ("Ford") on September 7, 1984, alleging that wastewater treatment sludge wastes at the Sterling Axle Plant were F006 listed hazardous wastes and that Ford had violated the regulations for treatment, storage or disposal of those wastes; and

WHEREAS, Ford responded to EPA's Complaint, asserting that the wastes were not F006 hazardous wastes and not otherwise hazardous and that Ford had not violated any provisions of the Resource Conservation and Recovery Act ("RCRA") or the regulations promulgated thereunder; and

WHEREAS, Ford was properly served with a copy of the Complaint with notice of opportunity for hearing in this matter, and the Regional Administrator has jurisdiction over this matter pursuant to Section 3008 of RCRA, 42 U.S.C. § 6928; and

WHEREAS, the EPA Administrator, acting through his delegate Ronald L. McCallum, Chief Judicial Officer, has ruled that non-electric etching wastes are not included within the F006 electroplating category because there was insufficient

notice given in the regulations that those wastes were included in the F006 category. See In the Matter of U.S. Nameplate Co., Docket No. RCRA-84-H-0012 (March 31, 1986); and

WHEREAS, Ford filed a Motion to Dismiss dated June 18, 1986, requesting dismissal on the ground that the Sterling Axle Plant wastes, like the non-electroplating etching wastes in Nameplate, were not listed F006 hazardous wastes, nor were they otherwise hazardous wastes; and

WHEREAS, EPA and Ford stipulate and agree that the Sterling Axle Plant sludge wastes are not F006 listed hazardous wastes, nor are they otherwise hazardous wastes; and

WHEREAS, EPA and Ford further stipulate and agree that this matter should be dismissed with prejudice as to all the violations which were or could have been alleged in the Complaint, but without prejudice in the event EPA properly promulgates new final regulations in accordance with the Administrative Procedure Act and other applicable law, to any claim for violation thereof, provided such conduct occurs subsequent to the final promulgation of such new regulations, if any.


NOW, THEREFORE, in accordance with the foregoing and it appearing from the entire record that it is appropriate to do so:

1. It is hereby determined that the Sterling Axle Plant wastes are not F006 listed hazardous wastes, nor are they otherwise hazardous wastes; and

2. It is further ordered that this matter should be, and the same hereby is, dismissed with prejudice as to all the violations which were or could have been alleged in the Complaint; and

3. In the event that EPA hereafter properly promulgates new final regulations relating to wastewater treatment sludge in accordance with the Administrative Procedure Act and other applicable law, this dismissal is without prejudice to any claim of violation thereof if the conduct constituting the violation, if any, by Ford occurs subsequent to final promulgation of such new regulations, if any.

ENTERED this 13th day of August, 1986.

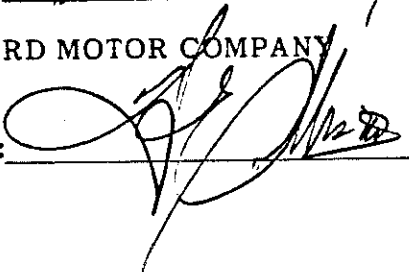

J. F. Greene, Administrative
Law Judge

Consented to:

ENVIRONMENTAL PROTECTION AGENCY


By: Max M. Radtke 8/7/86

FORD MOTOR COMPANY

By: 

CERTIFICATE OF SERVICE

I hereby certify that the Original of this Order was sent to the Regional Hearing Clerk and copies were sent to the counsel for the complainant and counsel for the respondent on August 14, 1986.


Shirley Smith
Secretary to Judge J. F. Greene

Ms. Beverly Shorty
Regional Hearing Clerk
Region V - EPA
230 South Dearborn Street
Chicago, Illinois 60604

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TELEPHONE 919-899-3000

FIRST TENNESSEE BANK BUILDING
P. O. BOX 951
KNOXVILLE, TENNESSEE 37901
TELEPHONE 615-637-4311

FILE NO. 27255.127

DIRECT DIAL NO. 804 788-8453

June 18, 1986

Ms. Beverely Thompson
Regional Hearing Clerk
U.S. Environmental Protection
Agency, Region V
230 S. Dearborn Street
Chicago, IL 60604

RECEIVED

JUN 20 1986

Re: Docket No. V-W-84-R-077

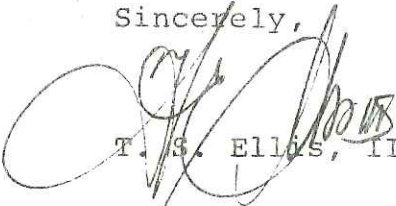
U. S. EPA REGION 5
OFFICE OF REGIONAL ADMINISTRATOR

Dear Ms. Thompson:

Enclosed are Respondent's Motion to Dismiss, Memorandum in Support of Respondent's Motion to Dismiss, Affidavit of Jerome S. Amber, Affidavit of Dennis L. Profitt and Certificate of Service which I would appreciate your filing on behalf of Respondent Ford Motor Company in the above matter.

Thank you for your assistance in this regard.

Sincerely,


T. S. Ellis, III

Enclosures

cc: Certificate of Service
Norman W. Bernstein, Esq.

O. RC
CC: RF) LETTER ONLY
WMD)

File
10/20/84
W. R. R. R.

HUNTON & WILLIAMS

707 EAST MAIN STREET

P. O. Box 1535

RICHMOND, VIRGINIA 23212

TELEPHONE 804-788-8200

TELEX 6844251

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P. O. BOX 19230
WASHINGTON, D. C. 20036
TELEPHONE 202-955-1500

FIRST VIRGINIA BANK TOWER
P. O. BOX 3888
NORFOLK, VIRGINIA 23514
TELEPHONE 804-625-5501
TELEX 755628

3050 CHAIN BRIDGE ROAD
FAIRFAX, VIRGINIA 22030
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100 PARK AVENUE
NEW YORK, NEW YORK 10017
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ONE HANNOVER SQUARE
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KNOXVILLE, TENNESSEE 37901
TELEPHONE 615-637-4311

FILE NO. 27255.127

DIRECT DIAL NO. 804 788-8338

February 28, 1986

U.S. Environmental Protection
Agency, Region V
RCRA Activities
P. O. Box A-3587
Chicago, IL 60690

To Whom It May Concern:

Ford recently received from EPA Region V the forms and instructions for completing the RCRA Facility Biennial Hazardous Waste Report for 1985. These materials were addressed to Ford's Sterling Axle Plant in Sterling Heights, Michigan.

Ford has asked that we respond to this mailing. For the reasons set forth below, Ford is not required to submit, and is not submitting, the RCRA Facility Biennial Hazardous Waste Report for 1985 for its Sterling Axle Plant ("Sterling").

The facility biennial report requirement and RCRA's hazardous waste treatment, storage or disposal ("TSD") facility regulations do not apply to Sterling because the two sludge lagoons at the plant that are discussed below did not receive any hazardous wastes after November 19, 1980, and because Ford did not submit a Part A application for any hazardous waste TSD facilities at the plant and, therefore, did not qualify any facilities at the plant for interim status. Ford does generate hazardous waste at Sterling, but none of it is (or was in 1985 or anytime after November 19, 1980) treated, stored (for longer than 90 days) or disposed of in any on-site hazardous waste facilities. Under separate cover, Ford is submitting the Generator Report (EPA Form 8700-13A) for Sterling.

As you may know, EPA Region V filed an administrative complaint (RCRA V-W-84-R-077) against Ford on September 24, 1984, alleging, among other things, that two sludge lagoons at the Sterling plant "stored" hazardous wastes within the meaning of RCRA, but acknowledging that no hazardous waste was deposited at the site after November 19, 1980. EPA also alleged that the lagoons are subject to Part 265 interim status

HUNTON & WILLIAMS

February 28, 1986

Page 2

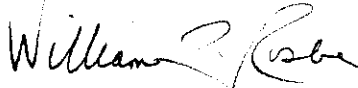
standards, including closure requirements. Ford has denied any violation of RCRA because, among other things, (a) the facility was a disposal facility; (b) the material is not a hazardous waste; and, even if it were, (c) no hazardous waste, as EPA defines it, was deposited after November 19, 1980. Discussions between Ford and EPA are continuing in that case. Your enforcement counsel in that case are Mr. Rodger C. Field and Mr. Marc C. Radell, both Assistant Regional Counsel.

While clearly stating its position that the material in the lagoons is not a hazardous waste and that the lagoons were not interim status facilities or subject to RCRA, Ford submitted, as part of a tentative settlement with EPA, a closure plan to EPA for the sludge lagoons at Sterling on April 15, 1985; last amended the plan on August 9, 1985; and is in the process of removing and disposing of the wastes from the impoundments as if they were hazardous wastes, without prejudice to Ford's position that the material is not hazardous. On September 30, 1985, EPA approved the closure plan with modifications. Ford has significant problems with EPA's modifications to the closure plan and has filed a petition for review of the imposition of those conditions. Ford v. EPA, No. 85-1842 (D.C. Cir., filed Dec. 26, 1985). EPA and Ford are continuing to discuss their differences on the closure plan, and it appears possible that the matter can be resolved without further litigation.

For these reasons, Ford is not required to submit, and is not submitting, either the Facility Biennial Hazardous Waste Report for 1985 or page one of that report. In order to correct your records and to ensure that the Facility Report forms and instructions are not sent to Ford for Sterling in the future, we request that you take the appropriate actions to delete from your records any reference to Sterling as a hazardous waste treatment, storage or disposal facility.

If you have any questions, please let us know.

Sincerely yours,



William L. Rosbe

cc: Rodger C. Field, Esq.
✓ Marc M. Radell, Esq.
Norman W. Bernstein, Esq.



Office of the General Counsel

Ford Motor Company
The American Road
Dearborn, Michigan 48121

February 19, 1986

EXPRESS MAIL

Rodger Field, Esq.
Assistant Regional Counsel
U. S. Environmental Protection Agency
Region V
230 South Dearborn Street
Room 1646 - SC-16
Chicago, Illinois 60604

Re Sterling Axle Plant
Docket No. V-W No 84 R 077

Dear Rodger:

This is to confirm the conversation that I had with Marc Radell of your office on February 13, 1986. It was agreed that Ford's time to provide the information with respect to ground water monitoring and comparability data would be extended to and including March 7, 1986. Our outside consultants have experienced problems beyond Ford's control, and need until the end of February to complete their work, for reasons noted in the attached letter. The March 7 date, in turn, will give us a few days to look at the work before we submit it to EPA.

We appreciate your cooperation.

Very truly yours,


Norman W. Bernstein
Associate Counsel

cc: The Honorable J. F. Greene

11 OCT 1985

Honorable J. P. Greene
Administrative Law Judge (A-110)
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

Re: Ford Motor Company - Sterling Axle Plant
RCRA-V-W-84-R-077

Dear Judge Greene:

Pursuant to your order, we write to advise you of the Status of Settlement in the referenced action. U.S. EPA forwarded approval of Respondent's closure plan on September 30, 1985, along with attached conditions. Respondent contacted us upon receipt of the approval on October 4, 1985, to express concern over certain of the closure conditions. Technical and legal advisors from both parties have conferred by telephone; technical staff from Respondent and U.S. EPA met in Chicago this week.

Respondent is still reviewing the conditions imposed upon our approval of its closure plan and we await Respondent's response. The parties expect to discuss these issues in the course of the next two weeks to attempt resolution of any remaining disagreements.

We thank you for your consideration in this matter.

Sincerely,

Marc M. Radell
Assistant Regional Counsel

MRadell/ic:10-11-85

ME

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
MARLENE J. FLUHARTY
STEPHEN V. MONSMA
J. STEWART MYERS
DAVID D. OLSON
RAYMOND POUPORE
HARRY H. WHITELEY

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

RONALD O. SKOOG, Director

S.E. Michigan Field Office
15500 Sheldon Road
Northville, MI 48167

October 10, 1985

Mr. E.C. Koops, Plant Manager
FMC, Sterling Axle Plant
39000 Mound Road
Sterling Heights, MI 48078

RE: MID 044255420

Dear Mr. Koops:

This letter is to acknowledge receipt of your letter dated September 27, 1985, indicating your compliance program for RCRA deficiencies cited during my inspection on August 28, 1985. I consider your response acceptable at this time for the violations relating to your containerized waste generation and will evaluate the adequacy of your program during future inspections. The violations relating to the surface impoundments are still pending and will be handled directly by the EPA.

Thank you for your cooperation. If you have any questions, please feel free to contact me at (313) 459-9180.

Sincerely,

A handwritten signature in cursive script, reading "Larry AuBuchon".

Larry AuBuchon
HAZARDOUS WASTE DIVISION

LA:jg

cc: U.S. EPA, Region V
B. Okwumabua



SEP 30 1985

HAZARDOUS WASTE

Transmission and Chassis Division
Ford Motor Company

Sterling Plant
39000 Mound Road
Sterling Heights, Michigan 48078

September 27, 1985

Mr. L. Aubuchon
MDNR-Hazardous Waste Division
S.E. Michigan Field Office
15500 Sheldon Road
Northville, Michigan 48167

Subject: USEPA - RCRA Compliance Inspection - Ford Motor Company - Sterling
Plant - MID044255420

Reference: Your Letter, Dated September 3, 1985 (Copy Attached)

Dear Mr. Aubuchon:

This letter is in response to your referenced letter and the alleged violations of subtitle C of the Resource Conservation and Recovery Act (RCRA). These alleged violations resulted from your August 28, 1985 facility compliance inspection at the Sterling Plant.

The following corrective actions have been taken regarding the alleged violations for containerized waste:

1. The procedure to insure that the accumulation start date will be placed on each 55 gallon drum of hazardous waste, as required by 40 CFR 262.34 (c) (1), has been re-distributed to affected employees. To insure compliance, "accumulation start dates" have been made an item of review on the weekly hazardous waste inspection log.
2. Personnel have been reinstructed to keep the lid closed on the funnel in the drum of solvent waste. Periodic audits will be conducted to insure compliance.
3. All drums of hazardous waste have been removed from the Sterling Plant and disposed of at an approved facility. To insure compliance with the 90 day storage rule, as specified in 40 CFR 262.34, (thereby negating the need to comply with the extended storage requirements of 40 CFR 265 and the permit requirements of 40 CFR 270) a disposal contract has been established with the assistance of Ford Central Purchasing.

As noted in your letter, the next five alleged violations are all items concerning the Northeast and Northwest surface impoundments. As was indicated to you by Mr. J. Garavanta during your facility inspection, and again by Mr. J. Amber of our Stationary Source Environmental Control Office during a phone conversation on August 28, 1985:

- o Ford does not consider the surface impoundments to contain hazardous waste.
- o Ford does not consider the surface impoundments to be subject to RCRA.
- o Ford has submitted a closure plan to USEPA

If you have any further questions, please contact Mr. J. Garavanta at (313) 826-5789.

Very truly yours



E. C. Koops
Plant Manager
Sterling Plant

Attachment

INSP

STATE OF MICHIGAN



S. E. Michigan Field Office
15500 Sheldon Road
Northville, MI 48167

NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
F. R. CAROLLO
COB A. HOEFER
STEPHEN F. MONSMA
HILARY F. SNELL
PAUL H. WENDLER
HARRY H. WHITELEY

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

RONALD O. SKOOG, Director

September 3, 1985

Mr. E. C. Koops, Plant Manager
FMC, Sterling Axle Plant
39000 Mound Road
Sterling Heights, Michigan 48078

RE: MID 044255420

Dear Mr. Koops:

On August 28, 1985, acting as a representative of the United States Environmental Protection Agency, I performed an inspection of your facility located at 39000 Mound Road, Sterling Heights, Michigan. The purpose of this inspection was to evaluate compliance of that facility with the requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) as amended.

As a result of that inspection, it has been determined that the above facility is in violation of some of the requirements of subtitle (c) of RCRA. Specifically the following was found:

1. Containerized waste did not have the start accumulation date as required in 40 CFR 262.34.
2. One container in the "fab" shop had a funnel with a flip lid in the bung of a solvent drum and the lid was not closed as required in 40 CFR 265.173.
3. From available information at the facility, generated hazardous waste has accumulated for more than 90 days which is not in accordance with 40 CFR 262.34. The facility also, by extending beyond 90 days, is not complying with the storage requirements of 40 CFR 265 and the permit requirements of 40 CFR 270.
4. As a comment, when your emergency plan is updated, a current copy should be provided to local response agencies.

The following violations have been separated out because they relate to the surface impoundments. My understanding is that you do not acknowledge that this is a managed hazardous waste nor a RCRA regulated unit. Basically with the exception of the closure plan, these violations are repeated from the June 25, 1984, inspection and will persist until a resolution with EPA is reached.

Mr. E. C. Koops
Re: MID 044255420
September 3, 1985
Page Two

1. The N.E. and N.W. surface impoundments were not submitted, as required, as part of the Part A notification.
2. The operating record was not available as required in 40 CFR 265.73.
3. The freeboard levels in the two impoundments, were not inspected daily as required in 40 CFR 265.226.
4. The dikes of the impoundments were not inspected weekly for evidence of leaks or deterioration as required in 40 CFR 265.226.
5. Groundwater monitoring as specified in Part 265 Subpart F was not accomplished for the surface impoundments.

You are requested to respond to this letter by September 25, 1985 providing documentation to this office regarding those actions taken to correct these violations. If you have any questions regarding this matter, please feel free to contact me at (313) 459-9180.

Sincerely,



Larry AuBuchon
Hazardous Waste Division

LA:m1m

cc: U.S. EPA, Region V
B. Okwumabua

RCRA INSPECTION REPORT

EPA Identification Number: M I D 0 4 4 2 5 5 4 2 0

Installation Name: FMC, Sterling Axle Plant

Location Address: 39000 Mound Rd.

City: Sterling Heights

State: Michigan

Date of Inspection 8/28/85

Time of Inspection (from) 0900 (to) 1200

Person(s) Interviewed

Title

Telephone

Jack Garavanta

Environmental Eng.

(313) 826-5789

Inspector(s)

Agency/Title

Telephone

Larry AuBuchan

MDNR/HWD/WQS

(313) 459-9180

Installation Activity (mark only one box)

Inspection Form(s) -

☒ ~~Treatment/Storage/Disposal~~ per 40 CFR §265.1 and ~~for~~
Generation and/or Transportation

A

☐ Treatment/Storage/Disposal (No Generation or Transportation)

A

☐ Generation and Transportation

B,C

☐ Generation Only

B

☐ Transportation Only

C

EPA

Company

B. Okwumabua

Section A: SCOPE OF INSPECTION.

1. Interim status standards for treatment storage or disposal of HAZARDOUS WASTES SUBJECT TO 40 CFR 265. Complete Inspection Form A sections B, C, D, E, and G.
2. Place an "X" in the box(es) corresponding to the facility's treatment, storage and disposal processes and generation and/or transportation activity (if any). Complete the applicable sections and appendixes.

Permit application process(es) (EPA Form 3510-3) Inspection Form A section(s)

S01	<input checked="" type="checkbox"/>	storage in containers	<i>See remarks section I</i>
S02	<input type="checkbox"/>	storage in tanks	J
T01	<input type="checkbox"/>	treatment in tanks	J
S04	<input checked="" type="checkbox"/>	storage in surface impoundment	<i>See remarks section K, F</i>
T02	<input type="checkbox"/>	treatment in surface impoundment	K, F
D83	<input type="checkbox"/>	disposal in surface impoundment	K, F
S03	<input type="checkbox"/>	storage in waste piles	L
D81	<input type="checkbox"/>	disposal by land application	M, F
D80	<input type="checkbox"/>	disposal in landfill	N, F
T03	<input type="checkbox"/>	treatment by incineration	O/P
T04	<input type="checkbox"/>	treatment in devices other than tanks, surface impoundments, or incinerators	Q

Other activities

GENERATOR	<input checked="" type="checkbox"/>	APPENDIX	GN
TRANSPORTER	<input type="checkbox"/>	APPENDIX	TR

3. Indicate any hazardous waste processes, by process code, which have been omitted from Part A of the facility's permit application.
4. Indicate any hazardous waste processes (by process code and line number on EPA Form 3510-3 page 1 of 5) which appear to be eligible for exclusion per 40 CFR 265.1(c). Provide a brief rationale for the possible exclusion.

Section B: GENERAL FACILITY STANDARDS: (Part 265 Subpart B)

	YES	NO	NI*	Remarks
1. Has the Regional Administrator been notified regarding: 265.12				
a. Receipt of hazardous waste from a foreign source?	—	—	—	<u>No receipt</u>
b. Facility expansion?	—	—	—	<u>No expansion</u>
c. Change of owner or operator?	—	—	—	<u>No change</u>
2. General Waste Analysis: 265.13				
a. Has the owner or operator obtained a detailed chemical and physical analysis of the waste?	<u>X</u>	—	—	
b. Does the owner or operator have a detailed waste analysis plan on file at the facility?	—	<u>X</u>	—	<u>no formal plan</u>
c. Does the waste analysis plan specify procedures for inspection and analysis of each movement of hazardous waste from off-site?	—	<u>X</u>	—	
3. Security - Do security measures include: (if applicable) 265.14				
a. 24-Hour surveillance?	<u>X</u>	—	—	
or				
b. i. Artificial or natural barrier around facility?	<u>X</u>	—	—	
and				
ii. Controlled entry?	<u>X</u>	—	—	
c. Danger sign(s) at entrance?	—	<u>X</u>	—	<u>"No smoking" & "HW" signs near drum storage area</u>
4. Owner or operator inspections: 265.15				<u>No signs around impoundment nor at entrance</u>
a. Does the owner or operator inspect the facility for malfunctions, deterioration, operator errors, and discharges of hazardous waste that may affect human health or the environment?	<u>X</u>	—	—	

*Not Inspected

	YES	NO	NI	Remarks
b. Does the owner or operator have an inspection schedule at the facility?	<u>X</u>	___	___	___
c. If so, does the schedule address the inspection of the following items:				
i. monitoring equipment?	<u>X</u>	___	___	<i>first safety inspection performed as part of SOP</i>
ii. safety and emergency equipment?	<u>X</u>	___	___	
iii. security devices?	<u>X</u>	___	___	
iv. operating and structural equipment (i.e. dikes, pumps, etc.)?	<u>X</u>	___	___	
v. type of problems to be looked for during the inspection (e.g. leaky fitting, defective pump, etc.)?	<u>X</u>	___	___	
vi. inspection frequency (based upon the possible deterioration rate of the equipment)?	<u>X</u>	___	___	
d. Are areas subject to spills inspected daily when in use?	<u>X</u>	___	___	
e. Does the owner or operator maintain an inspection log or summary of owner or operator inspections?	<u>X</u>	___	___	
f. Does the inspection log contain the following information:				<i>only performs monthly inspection of impoundments relating to NPDES discharge</i>
i. the date and time of the inspection?	<u>X</u>	___	___	
ii. the name of the inspector?	<u>X</u>	___	___	
iii. a notation of the observations made?	<u>X</u>	___	___	
iv. the date and nature of any repairs or remedial actions?	<u>X</u>	___	___	
5. Do personnel training records include: 265.16				
a. Job titles?	<u>X</u>	___	___	
b. Job descriptions?	<u>X</u>	___	___	

	YES	NO	NI	Remarks
c. Description of training?	<u>X</u>	—	—	—
d. Records of training?	<u>X</u>	—	—	—
e. Did facility personnel receive the required training by 5-19-81?	—	—	<u>X</u>	—
f. Do new personnel receive required training within six months?	—	—	—	<u>no new personnel</u>
g. Do personnel training records indicate that personnel have taken part in an annual review of initial training?	<u>X</u>	—	—	<u>3 personnel designated & trained.</u> <u>1 - Fab Shop (Paint)</u> <u>2 - 0007 paint line</u>
6. If required, are the following special requirements for ignitable, reactive, or incompatible wastes addressed? 265.17				
a. Special handling?	—	—	—	<u>N/A</u>
b. No smoking signs?	<u>X</u>	—	—	—
c. Separation and protection from ignition sources?	<u>X</u>	—	—	—

Section C: PREPAREDNESS AND PREVENTION: (Part 265 Subpart C)

1. Maintenance and Operation
of Facility: 265.31

Is there any evidence of fire,
explosion, or release of
hazardous waste or hazardous
waste constituent?

YES NO NI Remarks

 X

2. If required, does the facility
have the following equipment: 265.32

a. Internal communications or
alarm systems?

X

b. Telephone or 2-way radios
at the scene of operations?

X

c. Portable fire extinguishers,
fire control, spill control
equipment and decontamination
equipment?

X

Indicate the volume of water and/or foam available for fire control:

3. Testing and Maintenance of
Emergency Equipment: 265.33

a. Has the owner or operator
established testing and
maintenance procedures
for emergency equipment?

X

See Safety

b. Is emergency equipment
maintained in operable
condition?

X

4. Has owner or operator provided
immediate access to internal
alarms? (if needed) 265.34

X

5. Is there adequate aisle space
for unobstructed movement?

X

6. Has the owner or operator attempted
to make arrangements with local
authorities in case of an emergency
at the facility?

X

See plan

Section D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES: (Part 265 Subpart D)

	YES	NO	NI	Remarks
1. Does the Contingency Plan contain the following information: 265.52				
a. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control, and Counter-measures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.)	<u>X</u>	—	—	
b. Arrangements agreed by local police departments, fire departments hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to §265.37?	—	—	<u>X</u>	On site security, fire & medical
c. Names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinators?	<u>X</u>	—	—	
d. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list and a brief outline of its capabilities?	<u>X</u>	—	—	
e. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes?)	—	—	<u>X</u>	
2. Are copies of the Contingency Plan available at the site and local emergency organizations? 265.53	<u>X</u>	—	—	Plan had been provided in past however since no plan has been updated this update should be provided to locals.

YES	NO	NI	Remarks
-----	----	----	---------

3. Emergency Coordinator 265.55

- a. Is the facility Emergency Coordinator identified?
- b. Is coordinator familiar with all aspects of site operation and emergency procedures?
- c. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Emergency Procedures 265.56

If an emergency situation has occurred at this facility, has the Emergency Coordinator followed the emergency procedures listed in 265.56?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	no emergency
--------------------------	--------------------------	--------------------------	--------------

Section E: MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING: (Part 265 Subpart E)

YES NO NI Remarks

**** 1. Use of Manifest System 265.71**

a. Does the facility follow the procedures listed in §265.71 for processing each manifest? (Particularly sending a copy of the signed manifest back to the generator within 30 days after delivery.)

____ N/A _____

b. Are records of past shipments retained for 3 years?

____ _____

**** 2. Does the owner or operator meet requirements regarding manifest discrepancies? 265.72**

____ N/A _____

**** Not applicable to owners or operators of on-site facilities that do not receive any waste from off-site sources.**

3. Operating Record 265.73

a. Does the owner or operator maintain an operating record as required in 265.73?

____ No operating log for surface impoundments _____

b. Does the operating record contain the following information:

i. The method(s) and date(s) of each waste's treatment, storage, or disposal as required in 40 CFR Part 265 Appendix I?

____ _____

ii. The location and quantity of each hazardous waste within the facility? (This information should be cross-referenced to specific manifest number, if waste was accompanied by a manifest.)

____ _____

*****iii. A map or diagram of each cell or disposal area**

***** only applies to disposal facilities**

YES NO NI Remarks

showing the location and quantity of each hazardous waste? (This information should be cross-referenced to specific manifest number, if waste was accompanied by a manifest.)

iv. Records and results of all waste analyses, trial tests, monitoring data, and operator inspections?

v. Reports detailing all incidents that required implementation of the Contingency Plan?

vi. All closure and post closure costs as applicable?

4. Availability of Records 265.74

Are all facility records required under 40 CFR Part 265 available for inspection?

5.**Unmanifested Waste Reports 265.76

a. Has the facility accepted any hazardous waste from an off-site generator subject to 40 CFR 262.20 without a manifest or or shipping paper?

b. If "a" is yes, provide the identity of the source of the waste and a description of the quantity, type, and date received for each unmanifested hazardous waste shipment.

** Not applicable to owners or operators of on-site facilities that do not receive any hazardous from off-site sources.

Section F - GROUNDWATER MONITORING (Part 265 Subpart F)

Complete this section for facilities that treat, store, or dispose of hazardous waste in landfills, surface impoundments and/or by land treatment.

	YES	NO	NI	Remarks
1. Has the owner or operator of the facility implemented a groundwater monitoring system? 265.90	—	<u>X</u>	—	_____
If "no", Skip to number 11.				
2. Has the owner or operator of the facility implemented an alternate groundwater monitoring system as described in 265.90(d)?	—	—	—	_____
If "yes", skip to number 12. If "no", continue				
3. Does the groundwater monitoring system meet the following requirements of 265.91:				
a. At least one well installed hydraulically up-gradient from the limit of the waste management area?	—	—	—	_____
Indicate the total number of up-gradient wells.				
b. At least three wells installed hydraulically down-gradient at the limit of the waste management area?	—	—	—	_____
Indicate the total number of downgradient wells.				
c. Are the number, locations, and depths of all wells sufficient to yield groundwater samples that are representative of groundwater under the facility?	—	—	—	_____

Sketch the locations of the wells relative to the waste management area.

	YES	NO	NI	Remarks
d. Are the monitoring wells constructed in accordance with 265.91(c) (e.g. properly cased, screened, etc.)?	—	—	—	_____
4. Has the owner or operator developed a written groundwater sampling and analysis plan that includes procedures and techniques for: 265.92				
a. Sample collection?	—	—	—	_____
b. Sample preservation and shipment?	—	—	—	_____
c. Analytical procedures?	—	—	—	_____
d. Chain of custody control?	—	—	—	_____
5. Does the owner or operator follow his groundwater sampling and analysis plan?	—	X	—	_____
6. Is the groundwater sampling and analysis plan maintained at the facility?	—	—	—	_____
7. Has the owner or operator determined the concentration or value of all the groundwater monitoring parameters of 265.92(b) in accordance with paragraphs c and d of 265.92?	—	—	—	_____

	YES	NO	NI	Remarks
8. Has the owner or operator developed an <u>outline</u> of a comprehensive ground-water quality assesment program that is capable of determining: 265.93				
a. Whether hazardous waste or hazardous waste constituents have entered the groundwater?	—	—	—	—
b. The rate and extent of migration of hazardous waste or hazardous waste constituents in the groundwater?	—	—	—	—
c. The concentration of hazardous waste or hazardous waste constituents in the groundwater?	—	—	—	—
*9. Has the owner or operator performed a statistical analysis of his ground-water monitoring data as required in 265.93(b)?	—	—	X	—
*10. Was there a statistically significant increase (or pH decrease) detected in any well?	—	—	X	—
a. If "yes," has the owner or operator responded in accordance with the procedures prescribed in 265.93 paragraphs c through f?	—	—	X	—
Skip to number 14				
11. Has the owner or operator prepared a written groundwater monitoring waiver demonstration for the facility?	—	X	—	—
a. Is the waiver demonstration maintained at the facility?	—	—	—	—
b. Has the waiver demonstration been certified by a qualified geologist or geotechnical engineer?	—	—	—	—

Note: Inspectors should request a copy of the waiver document.

c. Skip questions 12, 13, and 14.

*These requirements do not take effect until the first 6 months after November 19, 1982. The latest date for compliance with these requirements is May 19, 1983.

	YES	NO	NI	Remarks
12. Has the owner or operator submitted an alternate groundwater monitoring system to the Regional Administrator?	___	___	___	_____
a. Has the plan been certified by a qualified geologist or geotechnical engineer?	___	___	___	_____
Note: If the plan for an alternate groundwater monitoring system was not submitted to the Regional Administrator the inspector should request a copy for review.				
13. Does the alternate groundwater monitoring plan address the requirements of 265.90(d)?	___	___	___	_____
14. Does the owner or operator submit reports and maintain records as required in 265.94?	___	___	___	_____

Section G - CLOSURE AND POST CLOSURE (Part 265 Subpart G)

	YES	NO	NI	Remarks
1. Closure 265.112				
a. Is the facility closure plan available for inspection?	X			
b. Does the plan identify:				
i. maximum extent unclosed during facility life?	X			
ii. maximum hazardous waste inventory?	X			
iv. estimated year of closure?	X			
v. schedule of closure activities?	X			
c. Has closure begun?		X		
*2. Post-Closure 265.118				
a. Is the post-closure plan available for inspection?			N/A	
b. Does this plan contain:				
i. description of groundwater monitoring activities and frequencies?				
ii. description of maintenance activities and frequencies for				
AA. integrity of cap, final cover, or containment structures, where applicable				
BB. facility monitoring equipment				
iii. name, address, and phone number of person or office to contact during post-closure care period?				
c. Has the post-closure period begun?				
d. Is the written post-closure cost estimate available? 265.144				

*Applies only to disposal facilities.

Section I - USE AND MANGEMENT OF CONTAINERS (Part 265, Subpart I)

	YES	NO	NI	Remarks
1. Are containers in good condition? 265.171	<u>X</u>	—	—	—
2. Are containers compatible with waste in them? 265.172	<u>X</u>	—	—	—
3. Are containers managed to prevent leaks? 265.173	<u>X</u>	—	—	—
4. Are containers stored closed?	<u>X*</u>	—	—	* one container in fab shop had a funnel with a flip lid in the bung of the drum. The flip lid was open.
5. Are containers inspected weekly for leaks and defects.	<u>X</u>	—	—	—
6. Are ignitable and reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive). 265.176	<u>X</u>	—	—	ignitable
7. Are incompatible wastes stored in separate containers? (If not, the provisions of 40 CFR 265.17(b) apply). 265.177	—	—	—	no incompatible wastes
8. Are containers of incompatible waste separated or protected from each other by physical barriers or sufficient distance?	—	—	—	↓ ↓ ↓

10 - solvent drums in storage building (55gal)

7 - D007 " in " " (55gal)

All were marked as HW however no accumulation dates were included on label.

2 filled 55gal solvent drums in fab shop
1 being filled.

Section K - SURFACE IMPOUNDMENTS (Part 265, Subpart K)

	YES	NO	NI	Remarks
1. Do surface impoundments have at least 60 cm (2 feet) of freeboard? 265.222	<u>X</u>	—	—	_____
2. Do earthen dikes have protective covers? 265.223	<u>X</u>	—	—	_____
3. Are waste analyses done when the impoundment is used to store a substantially different waste than before? 265.225	—	—	—	<u>no wastes placed in impoundment since 1980</u> <u>same wastes</u>
4. Is the freeboard level inspected at least daily? 265.226	—	<u>X</u>	—	_____
5. Are the dikes inspected weekly for evidence of leaks or deterioration?	—	<u>X</u>	—	_____
6. Are reactive & ignitable wastes rendered non-reactive or non-ignitable before storage in a surface impoundment? (If waste is rendered non-reactive or non-ignitable, see treatment requirements.) 265.229	—	<u>N/A</u>	—	_____
7. Are incompatible wastes stored in different impoundments? (If not, the provisions of 40 CFR 265.17(b) apply.) 265.230	—	<u>N/A</u>	—	_____

Appendix GN

Section A: Scope

1. Complete this Appendix if the owner or operator of a TSD facility also generates hazardous waste that is subsequently shipped off-site for treatment, storage, or disposal.

Section B: MANIFEST REQUIREMENTS (Part 262, Subpart B)

	YES	NO	NI	Remarks
(1) Does the operator have copies of the manifest available for review? 262.40	<u>X</u>	___	___	___
(2) Examine manifests for shipments in past 6 months. Indicate approximate number of manifested shipments during that period. <u>5</u>				
(3) Do the manifest forms examined contain the following information: (If possible, make copies of, or record information from, manifest(s) that do not contain the critical elements). 262.21				
a. Manifest document number?	<u>X</u>	___	___	___
b. Name, mailing address, telephone number, and EPA ID number of Generator	<u>X</u>	___	___	___
c. Name and EPA ID Number of Transporter(s)?	<u>X</u>	___	___	___
d. Name, address, and EPA ID Number Designated permitted facility and alternate facility?	<u>X</u>	___	___	___
e. The description of the waste(s) (DOT shipping name, DOT hazard class, DOT identification number)?	<u>X</u>	___	___	___
f. The total quantity of waste(s) and the type and number of containers loaded?	<u>X</u>	___	___	___
g. Required certification?	<u>X</u>	___	___	___
h. Required signatures?	<u>X</u>	___	___	___
(4) Reportable exceptions 262.42				
a. For manifests examined in (2) (except for shipments within the last 35 days), enter the number of manifests for which the generator has <u>NOT</u> received a signed copy from the designated facility within 35 days of the date of shipment. <u>0</u>				
b. For manifests indicated in (4a), enter the number for which the generator has submitted exception reports (40 CFR 262.42) to the Regional Administrator. <u>0</u>				

Section C: PRE-TRANSPORT REQUIREMENTS (Part 262, Subpart C)

	YES	NO	NI	Remarks
1. Is waste packaged in accordance with DOT regulations? (Required prior to movement of hazardous waste off-site) 262.30				
2. Are waste packages marked and labeled in accordance with DOT regulations concerning hazardous waste materials? (Required for movement of hazardous waste off-site) 262.31 262.32				
3. If required, are placards available to transporters of hazardous waste? 262.33				<u>transporter provides</u>
4. On-site accumulation of generated hazardous wastes. A HWMF may accumulate hazardous waste it generates either (A) in its storage facility [265.1(b)] or (B) in accordance with 40 CFR 262.34 [see 265.1(c)(7)]. Option B restricts all accumulation to tanks and containers. If the installation elects option A, check this box <input type="checkbox"/> and skip to Section D. If the installation elects option B, complete the following observations: See 40 CFR 262.34 January 11, 1982 Revision				
a. Is each container clearly marked with the start of accumulation date?		<input checked="" type="checkbox"/>		<u>DOO7 accumulating since March 28, 1985</u>
b. Have more than 90 days elapsed since the date inspected in (a)?	<input checked="" type="checkbox"/>			<u>DOO1 accumulating since Jan 28, 1985</u>
c. Do wastes remain in accumulation tanks for more than 90 days?		<u>N/A</u>		
d. Is each container and tank labeled or marked clearly with the words "Hazardous Waste"?	<input checked="" type="checkbox"/>			

Section D: - RECORDKEEPING AND REPORTING (Part 262, Subpart D)

	YES	NO	NI	Remarks
1. Are all test results and analyses needed for hazardous waste determinations retained for at least three years? 262.40	<input checked="" type="checkbox"/>			

Section E: - INTERNATIONAL SHIPMENTS (Part 262, Subpart E)

1. Has the installation imported or exported Hazardous Waste? 262.50		<input checked="" type="checkbox"/>		
(If answered Yes, complete the following as applicable.)				
a. Exporting Hazardous waste; has a generator:				

Remarks:

As soon as I arrived at this facility Mr. Saravanta contacted Jerry Amber by telephone and in a conference call, Mr. Amber wanted to have three points included in this report. The three points are as follows:

1. Ford does not consider the impoundment wastes a Hazardous Waste under RCRA
2. Ford does not consider the impoundments to be regulated under RCRA
3. The closure plan for these impoundments have been submitted to EPA and Ford is awaiting their response.

A storage inspection was conducted because of the lack of resolution relating to the surface impoundments.

TCE - Handled by Safety Klean

DO08 - oil non-haz. as of Oct 1984

FO11 - discontinued - last shipment was contaminated liquid

DO01, DO07 & DO08 - Solvent from Fab shop (yellow drum)

DO07 - Drum & Sludge waste (red drum)
Sludge removed from process tanks

Storage area

10 solvent / 7 DO07 drums

Plant still generates a sludge which is contained in process tanks at WWTP. EPA still considers this an F006 waste. When disposal effectuated it must be handled as such. (4-82B)



420

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

230 SOUTH DEARBORN ST.

CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

MEMORANDUM

SUBJECT: Vacation

FROM: Rodger Field *RIF 8/15/85*
Assistant Regional Counsel

TO: Mary Gade, Chief
SWERB

Barbara Magel
Section Chief

I will be on vacation from August 16 through September 13. I can be reached c/o Wada 1-4-19 Himonya, Meguro-Ku, Tokyo 152 Japan. The telephone number is Japan is 712/4737.

Matters which may require attention in my absence are:

1. Ford Sterling - RCRA Complaint

This matter involves groundwater monitoring requirements for two surface impoundments which Ford claims are unregulated (by virtue of the fact that final disposal took place before 1980). Ford has agreed to close the impoundments anyway, and has submitted a closure plan. We have waited to finalize the CAFO pending approval of the plan. The plan is now approved. The hitch is that the approval contains a requirement for groundwater monitoring to determine past releases. This was not included in earlier technical discussions with Ford, and may raise a problem. I forwarded a revised CAFO to Ford on August 12. They are considering the matter. Norm Bernstein of Ford (313/ 322-4891) will call Tom Daggett. We must advise Judge Greene of status by the end of first week in September. (9/6). If Ford rejects deal, we should advise Judge Greene to set the matter down for a hearing. If Ford accepts, we can simply advise Judge Greene that it has settled. Tom Daggett is handling this for me. Ron Kolzow is technical contact. George Hamper (6-6143) is the permit writer for the closure plan.

2. Raser Tanning

We have obtained default judgments against both defendants. A certificate of judgment was recently filed in the Ashtabula County Court with respect to these judgments. I have written to both defendants concerning this obligation. I have also spoken to Carey Sheldon by telephone. He will respond in writing as to what he can (will) do. I have deferred post-judgment proceedings until receipt of his response. I think the matter can await my return. Tom Daggett will handle this.

3. Coshocton

The City has requested a reduction in the frequency of sampling, and a response is in the sign-off chain. The city is also arranging for the next phase of the cleanup of the "drum pit" area. Art Kleinrath is the technical contact (6-7254) and will stay on top of this. Tim Conway is co-counsel and will handle matters in my absence.

4. Pristine.

The RI/FS is ongoing, and we have recently sent out over 70 Information Request. These are dribbling in. We have had a fair number of FOIA requests which I have handled with Alan Altur. Most such requests can be handled by providing some basic background documents which Mary Tyson (6-3007) has. Art Kleinrath (6-7254) is the technical contact who is arranging to have the invoices put on the computer. Tom Conway is co-counsel and will handle matters in my absence.

5. Wauconda Sand & Gravel.

A draft Consent Order has been distributed. The first negotiating session with PRP is scheduled for August 28. Richard Mednick is co-counsel and will handle this round of negotiations (thanks Richard). Technical contacts are Cindy Nolan (6-0040) and Rich Boice (6-4740).

6. Dover Chemical.

Refer any questions to Dan Hopkins who is the technical contact.

7. OMC

We are still awaiting the Seventh Circuit decision in the access case. We may move to lift the stay pending appeal, but this will depend on funding availability in light of recent decision to pull unobligated funds previously allocated to OMC. We should be receiving a draft of brief on the appeal in U.S. v OMC. Pam Rekar will continue to handle these matters in my absence.

8. Novaco

I have asked Russ Hart to send a follow-up letter to PRP to respond to our Information Request. Tim Conway will review draft F/S which may be completed in my absence.

9. Riverdale

We may receive a substantiation from the company regarding a confidentiality claim. Linz Audran will prepare a draft response in my absence.

Tom Daggett has kindly agreed to review my mail. Any other matters may be placed in a sack bottle and set adrift in the Pacific.

cc: Daggett, Conway, Mednick, Rekar
Kleinrath, Kolzow, Nolan, Boice, Hopkins

AUG 13 1985

Norman W. Bernstein, Esq.
Ford Motor Company
The American Road
P.O. Box 1899
Dearborn, MI 48110

Re: Ford - Sterling

Dear Norm:

Please find enclosed a revised CAFO with respect to the referenced matter. As we have discussed, the CAFO requires compliance with the approved closure plan. I was recently advised that U.S. EPA's policy now interprets the Part 255 closure provisions to require a period of groundwater monitoring as part of all closure plans in order to confirm that there has been no release to groundwater. This was not included in our earlier comments since we have only recently been made aware of this, but is included in U.S. EPA's approval letter which will be sent this week.

I hope the foregoing is satisfactory. Please call me on August 14 or 15 after your return from vacation. I will be out of the office from August 16. Since we must report to Judge Greene during the first week in September, it is necessary to finalize the CAFO as soon as possible. In my absence you may call Tom Daggett at 886-4245.

Thank you for your assistance.

Very truly yours,

Rodger Field
Assistant Regional Counsel

Enclosure

bcc: Kolzow
Hamper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

IN THE MATTER OF:)	
)	DOCKET NO.: V.W-84-R-077
FORD MOTOR COMPANY)	
STERLING AXLE PLANT)	CONSENT AGREEMENT
39000 MOUND ROAD)	AND FINAL ORDER
STERLING HEIGHTS, MICHIGAN)	
EPA I.D. NO.: MID 044 255 420)	

On September 24, 1984, a Complaint was filed in this matter pursuant to Section 3008 of the Resource Conservation and Recovery Act, as amended, (RCRA), 42 U.S.C. 6928, and the United States Environmental Protection Agency's Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR Part 22. The Complainant is the Director of the Waste Management Division, Region V, United States Environmental Protection Agency (U.S.EPA). The Respondent is Ford Motor Company.

The parties to this action, desiring to settle this action without formal hearing, enter into the following stipulations:

1. Respondent has been properly served with a copy of the Complaint with Notice of Opportunity for Hearing in this matter;
2. The Regional Administrator has jurisdiction over this matter pursuant to Section 3008 of RCRA, 42 U.S.C. 6928;
3. Respondent owns and operates a facility in Sterling Heights, Michigan (the "Facility"). Respondent maintains two surface impoundments at the Facility.

4. Respondent, for purposes of enforcement of this Order only, agrees not to contest the jurisdictional allegations contained in the Complaint filed herein;
5. Respondent neither admits nor denies the specific factual allegations contained in the Complaint filed herein, and specifically does not admit to any violation of any law, rule or regulation.
6. Respondent explicitly waives its right to request a hearing on the allegations of the Complaint filed herein;
7. Respondent without admitting any violation of any law, rule or regulation, consents to the issuance of the Order hereinafter recited, and agrees to comply therewith.

ORDER

Based on the foregoing stipulations, the parties agree to the entry of the following Order in this matter:

The Respondent, Ford Motor Company, shall achieve and maintain compliance with the following requirements:

1. Respondent shall promptly close the two surface impoundments which it presently maintains at the Facility in accordance with the closure plan attached here to as Appendix A. Said closure plan consists of the closure plan submitted by Respondent on April 15, 1985 as amended on June 19, 1985 and July 25, 1985 as approved by letter of U.S. EPA dated August ____, 1985. The closure plan provides, inter alia, for disposal of sludge from the surface

impoundment as a hazardous waste. The foregoing, however, does not constitute an admission by Respondent that such waste is a hazardous waste under RCRA, nor does this Consent Agreement and Final Order (CAFO) constitute an adjudication thereof. EPA and Respondent agree to make good faith efforts to resolve any differences regarding the closure plan.

2. Compliance with the terms of this Order shall constitute complete satisfaction of the allegations in the complaint. The payment of a civil penalty shall be waived provided Respondent achieves compliance with the requirements of this Order.
3. Respondent shall pay to U.S. EPA stipulated penalties in the amount of Seven Hundred Fifty (\$750.00) per week for failure to meet any requirement contained in this CAFO or the approved closure plan.
4. Respondent shall immediately comply (if it is not already doing so) with all the requirements for generators of hazardous waste contained in 40 CFR Part 262.
5. In the event of a delay in achieving compliance with any of the requirements of this Order or in the Closure Plan because of circumstances beyond the control of Re-

spondent, such delay shall not give rise to any penalty or be deemed a violation of this Order and the time for compliance shall be extended accordingly, provided, however, that increased costs by themselves, shall not be deemed a circumstance beyond Respondent's control for purpose of this provision and provided further that reasonable written notice is given to EPA of the reasons for and anticipated duration of such delay. Respondent shall take steps reasonably available to minimize the delay.

Notwithstanding any other provision of this Order, an enforcement action may be brought pursuant to Section 7003 of RCRA or other statutory authority should the U.S. EPA find that the handling, storage, treatment, transportation or disposal of solid waste or hazardous waste (if any) at the facility presents an imminent and substantial endangerment to human health or the environment. No defenses or objections to such finding or action are waived by Respondent's entering into this Order.

The above Consent Agreement and Final Order is hereby consented to by both of the parties to this proceeding.

Agreed this _____ day of _____, 1985.

Ford Motor Company, Respondent

By _____

Title _____

Agreed this _____ day of _____, 1985.

Basil G. Constantelos, Director
Waste Management Division
U.S. Environmental Protection Agency
Region V
Complainant

The above being agreed and consented to, it is so ORDERED
this _____ day of _____, 1985.

Valdas V. Adamkus
Regional Administrator
U.S. Environmental Protection Agency
Region V



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:

Norman W. Bernstein, Esq.
Office of General Counsel
Ford Motor Company
The American Road
Dearborn, Michigan 48121

11 JUL 1985

Re: Sterling Axle Plant

Dear Norm:

Since I was unable to speak to you by telephone this week, I have incorporated my comments on your revised CAFO into a new draft for your review. As you probably know, we have already provided written technical comments on the closure plan.

After you have had an opportunity to review this draft (which contains what I believe are minor revisions), please telephone me so that we may finalize the CAFO.

We must report to Judge Greene next week on the status of settlement, and I expect that we can agree upon final language by then.

Very truly yours,

Rodger Field
Assistant Regional Counsel

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

IN THE MATTER OF:)	
)	DOCKET NO.: V.W-84-R-077
FORD MOTOR COMPANY)	
STERLING AXLE PLANT)	CONSENT AGREEMENT
39000 MOUND ROAD)	AND FINAL ORDER
STERLING HEIGHTS, MICHIGAN)	
EPA I.D. NO.: MID 044 255 420)	

On September 24, 1984, a Complaint was filed in this matter pursuant to Section 3008 of the Resource Conservation and Recovery Act, as amended, (RCRA), 42 U.S.C. 6928, and the United States Environmental Protection Agency's Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR Part 22. The Complainant is the Director of the Waste Management Division, Region V, United States Environmental Protection Agency (U.S.EPA). The Respondent is Ford Motor Company.

The parties to this action, desiring to settle this action without formal hearing, enter into the following stipulations:

1. Respondent has been properly served with a copy of the Complaint with Notice of Opportunity for Hearing in this matter;
2. The Regional Administrator has jurisdiction over this matter pursuant to Section 3008 of RCRA, 42 U.S.C. 6928;
3. Respondent owns and operates a facility in Sterling Heights, Michigan (the "Facility"). Respondent maintains two surface impoundments at the Facility.

4. Respondent, for purposes of enforcement of this Order only, agrees not to contest the jurisdictional allegations contained in the Complaint filed herein;
5. Respondent neither admits nor denies the specific factual allegations contained in the Complaint filed herein, and specifically does not admit to any violation of any law, rule or regulation.
6. Respondent explicitly waives its right to request a hearing on the allegations of the Complaint filed herein;
7. Respondent without admitting any violation of any law, rule or regulation, consents to the issuance of the Order hereinafter recited, and agrees to comply therewith.

ORDER

Based on the foregoing stipulations, the parties agree to the entry of the following Order in this matter:

The Respondent, Ford Motor Company, shall achieve and maintain compliance with the following requirements:

1. Respondent shall promptly close the two surface impoundments which it presently maintains at the Facility in accordance with 40 CFR Part 265, Subpart G. To accomplish the foregoing, Respondent submitted to U.S. EPA on April 15, 1985, and amended on June 19, 1985, a closure plan for the two surface impoundments pursuant to 40 CFR 265.112 (hereinafter the "closure plan"). The closure plan provides, inter alia, for disposal of sludge from the surface impound-

ments as a hazardous waste. The foregoing, however, does not constitute an admission by Respondent that such waste is a hazardous waste under RCRA, nor does this Consent Agreement and Final Order (CAFO) constitute an adjudication thereof. EPA and Respondent agree to make good faith efforts to resolve any differences regarding the closure plan.

2. Upon approval of the closure plan by the U.S. EPA, Respondent will implement said closure plan in accordance with its terms and shall complete closure activities related to the two surface impoundments in accordance with the schedule in said closure plan. If the U.S. EPA does not approve the closure plan, Respondent shall implement the closure plan in accordance with modifications made by U.S. EPA or submit a new plan to U.S. EPA within 30 days of receipt of notice of disapproval. In the event Respondent submits a new closure plan, it shall implement the new closure plan in accordance with U.S. EPA approval or modifications as the case may be. If Respondent fails to submit a new closure plan within said 30 day period, Respondent shall implement the original closure plan in accordance with any modifications made by U.S. EPA.
3. Compliance with the terms of this Order shall constitute complete satisfaction of the allegations in the complaint. The payment of a civil penalty shall be waived provided Respondent achieves compliance with the requirements of this Order.
4. Respondent shall pay to U.S. EPA stipulated penalties in

the amount of Seven Hundred Fifty (\$750.00) per week for failure to meet any requirement contained in this CAFO or the approved closure plan.

5. Respondent shall immediately comply (if it is not already doing so) with all the requirements for generators of hazardous waste contained in 40 CFR Part 262.
6. In the event of a delay in achieving compliance with any of the requirements of this Order or in the Closure Plan because of circumstances beyond the control of Respondent, such delay shall not give rise to any penalty or be deemed a violation of this Order and the time for compliance shall be extended accordingly, provided, however, that increased costs by themselves, shall not be deemed a circumstance beyond Respondent's control for purpose of this provision and provided further that reasonable written notice is given to EPA of the reasons for and anticipated duration of such delay. Respondent shall take steps reasonable available to minimize the delay.

Notwithstanding any other provision of this Order, an enforcement action may be brought pursuant to Section 7003 of RCRA or other statutory authority should the U.S. EPA find that the handling, storage, treatment, transportation or disposal of solid waste or hazardous waste (if any) at the facility presents an imminent and substantial endangerment to human health or the environment. No defenses or objections to such finding or action are waived by Respondent's entering into this Order.

The above Consent Agreement and Final Order is hereby consented to by both of the parties to this proceeding.

Agreed this _____ day of _____, 1985.

Ford Motor Company, Respondent

By _____

Title _____

Agreed this _____ day of _____, 1985.

Basil G. Constantelos, Director
Waste Management Division
U.S. Environmental Protection Agency
Region V
Complainant

The above being agreed and consented to, it is so ORDERED
this _____ day of _____, 1985.

Valdas V. Adamkus
Regional Administrator
U.S. Environmental Protection Agency
Region V



Office of the General Counsel

Ford Motor Company
The American Road
Dearborn, Michigan 48121

June 19, 1985

Rodger C. Field, Esq.
Asst. Regional Counsel
U.S. EPA
Region V
230 South Dearborn Street
Room 1646
Chicago, Illinois 60604

Re: In the matter of Ford Motor Company -
Sterling Axle Plant (Docket No. V-W-84-R-077)

Dear Mr. Field:

Enclosed herewith are:

1. a revised draft of the Consent Agreement and Final Order; and
2. an amendment to the closure plan submitted by Ford on April 15, 1985. The amendment revises the schedule for final closure. The attached page should be substituted for the page containing Section I.D. in the originally filed version of the plan.

As you know, the amendment to the plan has been necessitated by the time needed for the Agency to complete its review and to furnish comments to Ford. We understand that we are to receive such comments shortly but that approval will be further delayed because of the need for public notice and comment. Since construction work will be substantially delayed by the onset of winter in Michigan, a new completion date of July 1, 1986 has been provided for. This date, however, assumes that excavation can begin by August 15, 1985 and is also subject to the force majeure provisions of the Consent Order.

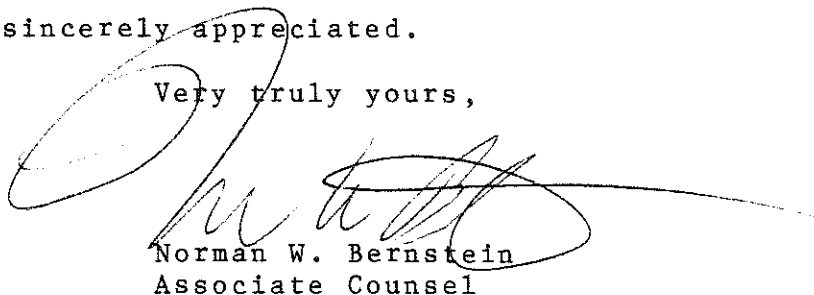
Please distribute copies of the substitute page as rapidly as possible to the Agency personnel responsible for the review and public notice processes.

Rodger C. Field, Esq.
June 19, 1985
Page 2

If there are any questions or problems regarding the revised draft of the Order, please do not hesitate to call me.

Your cooperation is sincerely appreciated.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'Norman W. Bernstein', is written over the typed name. The signature is fluid and cursive, with a large loop at the end.

Norman W. Bernstein
Associate Counsel

Attachments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

IN THE MATTER OF:)	
)	DOCKET NO.: V-W-84-R-077
FORD MOTOR COMPANY)	
STERLING AXLE PLANT)	CONSENT AGREEMENT
39000 MOUND ROAD)	AND FINAL ORDER
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On September 24, 1984, a Complaint was filed in this matter pursuant to Section 3008 of the Resource Conservation and Recovery Act, as amended, (RCRA), 42 U.S.C. §6928, and the United States Environmental Protection Agency's Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR Part 22. The Complainant is the Director of the Waste Management Division, Region V, United States Environmental Protection Agency (U.S. EPA). The Respondent is Ford Motor Company.

The parties to this action, desiring to settle this action without formal hearing, enter into the following stipulations:

1. Respondent has been properly served with a copy of the Complaint with Notice of Opportunity for Hearing in this matter;
2. The Regional Administrator has jurisdiction over this matter pursuant to Section 3008 of RCRA, 42 U.S.C. §6928;
3. Respondent owns and operates a facility in Sterling Heights, Michigan, located at 39000 Mound Road, Sterling Heights, Michigan (the "Facility"). Respondent maintains two surface impoundments at the Facility;

4. Respondent, for purposes of enforcement of this Order only, agrees not to contest the jurisdictional allegations contained in the Complaint filed herein;
5. Respondent neither admits nor denies the specific factual allegations contained in the Complaint filed herein but explicitly denies any violation of any law, rule or regulation;
6. Respondent explicitly waives its right to request a hearing on the allegations of the Complaint filed herein;
7. Respondent, without admitting any violation of any law, rule or regulation, consents to the issuance of the Order hereinafter recited, and agrees to comply therewith.

ORDER

Based on the foregoing stipulations, the parties agree to the entry of the following Order in this matter:

The Respondent, Ford Motor Company, shall achieve and maintain compliance with the following requirements at the Facility:

1. Respondent shall promptly, as provided herein, close the two surface impoundments which it presently maintains at the Facility. To accomplish the foregoing, Respondent submitted to U. S. EPA on April 15, 1985, and amended on June 19, 1985, a closure plan for the two surface impoundments pursuant to 40 CFR 265.112 (hereafter the closure "plan"). The closure plan provides, inter alia, for disposal of sludge from the surface impoundments as a hazardous waste. The foregoing, however, does not constitute an admission by Respondent that such waste is a hazardous waste under RCRA, nor does this Consent Agreement and Final Order (CAFO)

constitute an adjudication thereof. The U.S. EPA agrees to expedite its review of the plan and to attempt to provide Respondent with any comments thereon prior to June 30, 1985. EPA and Respondent will meet promptly and make a good faith effort to resolve any differences regarding the plan. If the U.S. EPA does not approve the plan, Respondent must modify the plan or submit a new plan for approval within 30 days of receipt of notice of disapproval.

2. Upon approval of the closure plan by the U.S. EPA, Respondent will implement said closure plan in accordance with its terms and shall complete closure activities related to the two surface impoundments in accordance with the schedule in said closure plan.
3. The entry of this CAFO terminates this action, the allegations in the complaint are dismissed, and the payment of a civil penalty is waived, provided Respondent achieves compliance with the requirements of this Order.
4. If Respondent fails to meet any requirement contained in this Order or the approved closure plan, Respondent shall pay to U.S. EPA stipulated penalties in the amount of SEVEN HUNDRED FIFTY DOLLARS (\$750) per week for so long as such failure continues.
5. Respondent shall immediately comply (if it is not already doing so) with all the requirements for generators of hazardous waste contained in 40 CFR Part 262.

6. In the event of a delay in achieving compliance with any of the requirements of this Order or in the Closure Plan because of circumstances beyond the control of Respondent, such delay shall not give rise to any penalty or be deemed a violation of this Order and the requirements shall be extended accordingly, provided, however, that increased costs by themselves, shall not be deemed a circumstance beyond Respondent's control for purpose of this provision and provided further that reasonable written notice is given to EPA of the reasons for and anticipated duration of such delay. Respondent shall take steps reasonably available to minimize the delay. In the event the parties agree to the duration of such delay, an appropriate amendment to this Order shall be entered. In the event the parties are unable to agree, either party may apply to the Administrative Law Judge, on 15 days prior written notice, for appropriate relief.

Notwithstanding any other provision of this Order, an enforcement action may be brought pursuant to Section 7003 of RCRA or other statutory authority should the U.S. EPA find that the handling, storage, treatment, transportation or disposal of solid waste or hazardous waste (if any) at the facility presents an imminent and substantial endangerment to human health or the environment. No defenses or objections to such findings or action are waived by Respondent's entering into this Order.

The above Consent Agreement and Final Order is hereby consented to by both of the parties to this proceeding.

Agreed this _____ day of _____, 1985.
Ford Motor Company, Respondent

By _____
Title _____

Agreed this _____ day of _____, 1985.

Basil G. Constantelos, Director
Waste Management Division
U.S. Environmental Protection Agency
Region V
Complainant

The above being agreed and consented to, it is so ORDERED this
_____ day of _____, 1985.

Valdas V. Adamkus
Regional Administrator
U.S. Environmental Protection Agency
Region V

- B. Estimate of Amount of Inventory in Surface Impoundments
 - 1. Waste Oil & Water - 750,000 Gallons (All in Northwest Impoundment)
 - 2. Sludge - 45,000 Cu. Yds. (In Both Impoundments)

- C. Inventory of Auxiliary Equipment

No Ford Motor Company - Sterling Plant equipment will be used during closure activities. All dredging, dewatering, and transportation will be contracted to firms that specialize in waste removal and that furnish their own equipment.

- D. Schedule of Final Closure

- 1. Final Dates Wastes were Deposited
 - a. Northeast Impoundment: Fall, 1970
 - b. Northwest Impoundment: August, 1980
- 2. Start Excavation of Sludge and Residue from Northeast and Northwest Surface Impoundments: August 15, 1985

NOTE: The August 15, 1985 start date is predicated on EPA approval of this Closure Plan, as submitted, after the required Public Notice, and prior to August 15, 1985.

- 3. Following excavation, soil samples to be taken to confirm that sludge and residues have been removed (Refer to Section III B for procedures to be used to insure that all waste is removed from surface impoundments.)
- 4. Target date for completion of closure of Northeast and Northwest Surface Impoundments: July 1, 1986*

NOTE: Adherence to the July 1, 1986 target date is dependent upon acceptance of waste shipments at the disposal site (Wayne Disposal, Inc.). Until September, 1985, approximately 8-9 loads per day will be shipped due to capacity limitations at the landfill. With activation of the landfill's new cell excavation and hauling is expected to be accelerated.

- 5. Surface impoundments closure certification will be sent to U.S. EPA within sixty (60) days after closure, as described in Paragraph I.D. 4, is complete.

II. REMOVING ALL INVENTORY

- A. Maximum Amount of Inventory On-Site
Refer to I. (B) above.
- B. Methods and procedures for treating, removing and disposing of Inventory from Surface Impoundments
 - 1. Waste oil will be tested and removed from the impoundment for reclaim in accordance with applicable federal and state regulations.
 - 2. Wastewater will be discharged into the Plant's process wastewater system where it will be properly treated at the Plant's wastewater pretreatment facility.

*/ In the event excavation is not started by August 15, 1985 because of EPA non-approval of the plan or for any other reason beyond Ford's control this date will be extended.

17 JUN 1985

Judge J.F. Greene
Office of Administrative Law Judges (A-110)
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

Re: Ford Motor Company
Sterling Axle Plant
RCFA - V-W-84-R-077

Dear Judge Greene:

As required by your Order, we write to inform you as to the status of settlement in the referenced action. As we have previously advised, the parties have reached agreement as to settlement of this matter. This agreement will involve closure of two surface impoundments at the facility. Respondent has submitted a closure plan which is now being reviewed by both U.S. EPA and the State of Michigan. We expect this process (which includes a thirty day public comment period) to be completed by the middle of July. The parties have exchanged a draft Consent Agreement and Final Order.

We expect that all remaining matters can be resolved and a final Order signed by the end of July. Accordingly, both parties would request this additional period to resolve this matter.

Thank you for your continuing attention.

Very truly yours,

Rodger C. Field
Assistant Regional Counsel

cc: Norman W. Bernstein, Esq.
Regional Hearing Clerk

3 MAY 1985

Norman W. Bernstein, Esq.
Associate Counsel
Ford Motor Company
The American Road
Dearborn, Michigan 48121

Re: Ford-Sterling
V-W-84R 077

Dear Norm:

As discussed, we are forwarding a draft order resolving the referenced action. After you review, kindly call me at your earliest convenience so that we may finalize this matter.

Thank you for your attention.

Very truly yours,

Rodger C. Field
Assistant Regional Counsel

Enclosure

5ORC: RField/ba 4/29/85

RCF 4/29/85

AK 4/30/85 *RC* 5/1/85

Wen
5/1/85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

IN THE MATTER OF:)	
)	DOCKET NO.: V-W-84-R-077
FORD MOTOR COMPANY)	
STERLING AXLE PLANT)	CONSENT AGREEMENT
39000 MOUND ROAD)	AND FINAL ORDER
STERLING HEIGHTS, MICHIGAN)	
EPA I.D. No.: MID 044 255 420)	

On September 24, 1984, a Complaint was filed in this matter pursuant to Section 3008 of the Resource Conservation and Recovery Act, as amended, (RCRA), 42 U.S.C. §6928, and the United States Environmental Protection Agency's Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR Part 22. The Complainant is the Director of the Waste Management Division, Region V, United States Environmental Protection Agency (U.S. EPA). The Respondent is Ford Motor Company.

The parties to this action, desiring to settle this action without formal hearing, enter into the following stipulations:

1. Respondent has been properly served with a copy of the Complaint with Notice of Opportunity for Hearing in this matter;
2. The Regional Administrator has jurisdiction over this matter pursuant to Section 3008 of RCRA, 42 U.S.C. §6928;
3. Respondent owns and operates a facility in Sterling Heights, Michigan, located at 39000 Mound Road, Sterling Heights, Michigan (the "Facility"). Respondent maintains two surface impoundments at the Facility.
4. Respondent hereby admits the jurisdictional allegations contained in the Complaint filed herein;

5. Respondent neither admits nor denies the specific factual allegations contained in the Complaint filed herein.
6. Respondent explicitly waives its right to request a hearing on the allegations of the Complaint filed herein;
7. Respondent consents to the issuance of the Order hereinafter recited, and agrees to comply therewith.

ORDER

Based on the foregoing stipulations, the parties agree to the entry of the following Order in this matter:

The Respondent, Ford Motor Company, shall achieve and maintain compliance with the following requirements:

1. Respondent shall immediately comply with all the requirements for generators of hazardous waste contained in 40 CFR Part 262.
2. Respondent shall promptly close the two surface impoundments which it presently maintains at the Facility. To accomplish the foregoing, Respondent shall, within 15 days of issuance of this Order, develop and submit to U.S. EPA a closure plan for the two surface impoundments pursuant to 40 CFR 265.112. The closure plan shall provide, inter alia, for disposal of sludge from the surface impoundments as a hazardous waste. The foregoing, however, does not constitute an admission by Respondent that such waste is a hazardous waste under RCRA, nor does this Consent Agreement and Final Order (CAFO) constitute an adjudication thereof. The U.S. EPA shall approve, modify, or disapprove the plan. If the U.S. EPA does not approve the plan, Respondent must modify the

plan or submit a new plan for approval within 30 days of receipt of notice of disapproval. If the U.S. EPA modifies the plan, this modified plan becomes the approved closure plan.

3. Upon approval of the closure plan by the U.S. EPA, Respondent will implement said closure plan in accordance with its terms and shall complete closure activities related to the two surface impoundments in accordance with the schedule in said closure plan.
4. The payment of a civil penalty shall be waived provided Respondent achieves compliance with the requirements of this Order.
5. Respondent shall pay to U.S. EPA stipulated penalties in the amount of ONE THOUSAND DOLLARS (\$1,000) per week for failure to meet any requirement contained in this CAFO or the approved closure plan.

Notwithstanding any other provision of the Order, an enforcement action may be brought pursuant to Section 7003 of RCRA or other statutory authority should the U.S. EPA find that the handling, storage, treatment, transportation or disposal of solid waste or hazardous waste at the facility present an imminent and substantial endangerment to human health or the environment.

The above Consent Agreement and Final Order is hereby consented to by both of the parties to this proceeding.

Agreed this _____ day of _____, 1985.

Ford Motor Company, Respondent

By _____

Title _____

Agreed this _____ day of _____, 1985.

Basil G. Constantelos, Director
Waste Management Division
U.S. Environmental Protection Agency
Region V
Complainant

The above being agreed and consented to, it is so ORDERED
this _____ day of _____, 1985.

Valdas V. Adamkus
Regional Administrator
U.S. Environmental Protection Agency
Region V

MAR 1 1985

5HE-12

Mr. ~~James~~ **MAR 1 1985** ~~Amber~~
Principal Staff Engineer
Stationary Source Environmental
Control Office
Ford Motor Company
One Parklane Boulevard
Dearborn, Michigan 48126

Re: Ford Sterling Plant
MID 044 255 420

Dear Mr. Amber:

The United States Environmental Protection Agency (U.S. EPA) has reviewed Ford Motor Company's technical report concerning phosphating operations at the Sterling Plant submitted February 12, 1985. Based on this review, U.S. EPA concludes that Ford Sterling Plant's description of phosphating operations meets the definition of electroplating operations as used in the background document for the listing of EPA Hazardous Waste Number F006.

U.S. EPA's decision is based on the following comments:

1. The definition of electroplating used in the background document for the listing of F006 waste-wastewater treatment sludges from electroplating operations - in 40 CFR 261.31 is based on the NPDES effluent guidelines for electroplating given at 40 CFR Part 413. There are several subparts in these guidelines for "electroplating" processes in which an electric current is not employed; for example, Subpart G - Electroless Plating. Therefore, the presence of an electric current is not a prerequisite for a process to be included in "electroplating".
2. 40 CFR Part 413, Subpart E - Coatings - applies to "chromating, phosphating or immersion plating on ferrous or non ferrous materials". The applicability section places no restrictions on the reason why the coating is applied to the base material.
3. The fact that the sludge samples in the Northeast and Northwest lagoons do not meet any of the 40 CFR Part 261 Subpart C general characteristics has no bearing on the

sludge being a hazardous waste. It is a hazardous waste because the sludge meets the definition of F006 given in 40 CFR 261.31.

4. The low nickel concentration of the phosphating solution is not relevant to the hazardous waste determination because F006 is wastewater treatment sludge in which the metals are expected to be greatly concentrated. The nickel concentrations of the sludge in the lagoons are 65 and 52 parts per million wet even after dilution with other non-electroplating treatment sludges.

In summary, U.S. EPA considers the wastewater treatment plant sludge in the Sterling Plant's Northeast and Northwest lagoons to be a hazardous waste from an electroplating operation.

Should you have further questions or comments, please feel free to contact me at (312) 886-4445.

Sincerely yours,

Ronald Kolzow
Environmental Protection Specialist
RCRA Enforcement Section

cc: Rodger C. Field, 5C
Norman W. Bernstein, Ford Motor Company
Larry AuBuchon, MDNR

5HE-12:RKOLZOW:ssmith:2/28/85

*OK
Rif 2/28/85*

	TYPIST	AUTHOR	STU #1	STU #2	STU #3	TPS	WMB	WM
INITIALS	AP	RK	CHIEF	CHIEF	CHIEF	CHIEF	CHIEF	D...
DATE	2-28-85	2-28-85	2-28-85					

WFM 3/1/85



RECEIVED
FEB 14 1985
WASTE MANAGEMENT
BRANCH

Environmental and Safety Engineering Staff
Ford Motor Company

One Parklane Boulevard
Dearborn, Michigan 48126

February 12, 1985

Mr. Ronald Kolzow (5HE-12)
Hazardous Waste Enforcement Branch
U.S. EPA, Region V
230 S. Dearborn St.
Chicago, Illinois 60604

Subject: Ford Sterling Plant
EPA ID No. MID 044255420

Dear Mr. Kolzow:

At our informal RCRA Settlement Conference held in Chicago on January 30, 1985, to discuss matters relating to the Ford Sterling Plant, EPA requested that Ford submit a brief technical report concerning certain manufacturing operations conducted at the plant. Of particular interest you will recall, were the rinsewaters generated by and wastewater treatment of certain manganese-iron phosphating activities ancillary to the plant's Pin Gear and Gear Set Operations.

Attached please find a copy of the report prepared in response to your request. Included are analytical results obtained by the plant relating to both the composition of the wastewater treatment sludge as well as its low leachability.

As a separate matter and as discussed with you at our recent meeting, we have begun preparation of a draft Closure Plan for the plant's Northeast and Northwest Lagoons in anticipation of further direction from EPA as to possible settlement of this case. Barring unforeseen developments, this Closure Plan should be completed by the end of March 1985.

Very truly yours,

Jerome S. Amber
Principal Staff Engineer
Stationary Source Environmental
Control Office
313/322-4646

9/JSA31/1h
Attachment

Ford Motor Company
Sterling Plant

SUBJECT: Wastewater Treatment Sludge/Process Description
Northeast and Northwest Surface Impoundments

BACKGROUND

Ford Motor Company Sterling Plant is an integrated manufacturing facility which includes machining, grinding, stamping, welding, heat treating, cleaning, painting, assembly and test operations. The plant produces automotive parts for shipment to other Ford facilities, such as final assembly plants.

PROCESS DESCRIPTION

What it is: As part of the Pin Gear and Gear Set Operations a manganese-iron phosphate coating is applied to improve lubrication and provide wear resistance to gears during break-in. This is the only phosphating operation in the plant. The process consists of 1) cleaning the part with an alkaline metal cleaner, 2) rinsing the part with clear running water, 3) rinsing the part with hot water, 4) submersing the part for 15 minutes at 200°F in a 10% solution consisting of 1 gallon manganese-iron phosphate to 9 gallons water, 5) rinsing the part, and 6) spraying the part with soluble oil for rust protection. The material used in this process is a concentrated solution of nitrate-activated manganese phosphate and phosphoric acid, containing 0.8% nickel catalyst. The only wastewater from this process containing the phosphate material would be the rinse water following the manganese-iron phosphate submersion which would contain carryover from the dip tank. This source currently contributes about 7% of the total 500,000 gallons per day treated by and discharged from the Sterling Plant -- approximately the same proportion of flow circa the early 1970's.

What it is not: It should be noted that this phosphate coating is applied for wear resistance only (lubricity) and is not that which is typically applied at assembly plants to produce a paint-bonding zinc phosphate coat on automotive bodies. Also, this process is not followed by a chromic acid rinse typically used to neutralize residues prior to painting. It should be noted that this process does not involve the use of electric current or cyanide. Accordingly, we do not consider this an "electroplating operation" in the engineering sense, and thus the sludge generated should not be categorized by EPA as the "listed" hazardous waste "wastewater treatment sludge from electroplating operations", EPA waste code F006.

WASTEWATER TREATMENT OPERATIONS

The wastewater treatment process utilized prior to 1977 treated plant oily wastes, accounting for most of the wastewater/sludge generated. A relatively small component of the process waste stream consisted of phosphating rinsewater from the four manganese-iron phosphate "Lubrite" washers at the plant. Prior to the effective date of the RCRA regulations, some of the sludges generated by this treatment process (using ferric chloride and lime) were pumped to the Northeast and Northwest lagoons.

In 1981 the wastewater treatment process was changed from a ferric-chloride and lime system to a cationic polymer-ferric chloride system. As a result, the plant no longer generates this material in its wastewater treatment operations. No wastewater treatment sludge was disposed of in these impoundments after 1973. The two lagoons in question contain a total of approximately 45,000 yd³ of sludge.

TESTING DATA

Lagoon samplings were performed individually using the "simple random sampling" method, as described in EPA SW846, 2nd Edition. Analytical results for heavy metals as they were determined in both the filtered EP leachate and in the sample as received (wet) are such that the sludge is not EP-toxic. In addition, the cyanide data for the sludge as received indicates that it is essentially absent (see Attachment I). Therefore, these sludges being also non-flammable, non-corrosive, and non-reactive, should be considered to be non-hazardous based on established EPA hazardous waste criteria.

SUMMARY

The type of phosphating operation used at the Ford Sterling plant is not consistent with any definitions for electroplating given in technical books (i.e. electric current is not used and metals are not deposited on the surface of the part for corrosion protection or decorative purposes). The EPA development document (November 14, 1980) supporting its waste listings (p. 106) states that "wastewater treatment sludges from the listed electroplating operations contain significant concentrations of the toxic heavy metals, chromium, cadmium, and nickel and toxic complexed cyanides"... and that "leaching tests using the extraction procedure...have shown that these metals leach out in significant concentrations, with some samples failing the extraction procedure toxicity characteristics." The manganese-iron phosphate solutions used at this plant contain no cyanide, chromium or cadmium. Material manufacturers report that their solutions contain less than 1% nickel nitrate (less than 0.3% Ni by weight), which is used as a catalyst.

EP Toxicity results (Attachment I) for the sludge indicate that it is not EP toxic, and it also meets drinking water standards for the metals analyzed. (In the case of cadmium, the analytical sensitivity does not permit that conclusion, but the conclusion is reasonable based on the total amount of cadmium in the sludge). Although nickel has no drinking water standard or EP toxicity value, the U.S. EPA has been using a health-based standard of 0.632 mg/l for evaluating nickel-bearing wastes. The leachate values are well within not only the expected EP toxicity value for nickel, i.e., 100 times 0.632 mg/l, or 63.2 mg/l, but also 10 times the standard, i.e., 6.32 mg/l -- ten being the factor originally proposed by the EPA to be applied to drinking water standards to produce EP toxicity standards but eventually determined to be too restrictive. These leachate and sludge metal concentrations are rather low compared to the concentrations presented for electroplating sludges in the development document.

For all of the above reasons we believe that the sludge in question is "not capable of posing a substantial present or potential hazard to human health or the environment". Thus, this material should not be considered a hazardous waste.

Sterling Plant
Data Summary

Parameters	North East Sludge Lagoon			North West Sludge Lagoon		
	Avg. Leachate Concentration (mg/L)	Leachate UCL Concentration (mg/L)	Avg. Sample Wet Weight Concentration (mg/Kg)	Avg. Leachate Concentration (mg/L)	Leachate UCL Concentration (mg/L)	Avg. Sample Wet Weight Concentration (mg/Kg)
Arsenic	< 0.05	0.05	10.4	< 0.05	0.05	13.8
Barium	0.3	0.4	102	0.7	0.8	59
Cadmium	< 0.05	0.05	4.0	< 0.05	0.05	3.2
Chromium	< 0.05	0.05	67	< 0.05	0.05	51
Copper	< 0.05	0.05	106	< 0.05	0.05	112
Lead	< 0.05	0.05	238	< 0.05	0.05	103
Mercury	< 0.0005	0.0005	0.1	< 0.0005	0.0005	0.1
Nickel	0.77	1.12	65	0.99	1.08	52
Selenium	< 0.005	0.005	< 0.1	< 0.005	0.005	< 0.1
Silver	< 0.05	0.05	1.2	< 0.05	0.05	0.8
Zinc	1.60	2.38	320	2.08	2.30	192
Cyanide			0.8			1.0

Attachment 1



Ford Motor Company

The American Road
Dearborn, Michigan 48121
November 1, 1984

Ms. Mary Langer
Regional Hearing Clerk
U.S. EPA
Region V
230 South Dearborn Street
Chicago, Illinois 60604

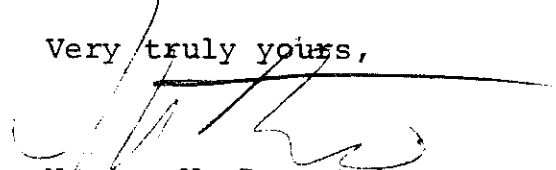
Re: Complaint, Findings of Violation
and Order
Sterling Axle Plant
MID 044 255 420
V-W NO. 84 R 077

Dear Ms. Langer:

Please find enclosed substitute pages 8 and 9 for the pages contained in Respondent's request for a hearing and answer previously filed in the above matter. The original answer inadvertently omitted paragraphs 37 and 38 on page 8 and the correction of page 8 required a retyping of page 9.

Roger Field, counsel for Complainant, has authorized me to say that he has no objection to the substitution.

Very truly yours,



Norman W. Bernstein
Associate Counsel

NWB/be
Attachment

cc: Roger Field

AS AND FOR A FOURTH AFFIRMATIVE DEFENSE

33. Respondent repeats and realleges all of the allegations contained in this answer.

34. EPA had an obligation to review Respondent's delisting petition in a reasonably diligent manner in accordance with the then existing law.

35. EPA failed to act with reasonable diligence in determining the merits of Respondent's delisting petition.

36. By reason of the unreasonable delay, as aforesaid, in reviewing the delisting petition, Claimant is estopped from alleging that the material referred to in the Complaint is hazardous.

AS AND FOR A FIFTH AFFIRMATIVE DEFENSE

37. Respondent repeats and realleges all of the allegations contained in this answer.

38. Claimant is barred by laches from asserting that the material referred to in the Complaint is hazardous.

AS AND FOR A SIXTH AFFIRMATIVE DEFENSE

39. Respondent repeats and realleges all of the allegations contained in this answer.

40. By proceeding on an interpretation that is inconsistent with its prior interpretation, upon which Respondent relied, EPA is engaged in interpretative or other rule making in violation of the Administrative Procedure Act (or is otherwise required to give public notice thereof, which it has not done) and such interpretation is null and void and of no effect.

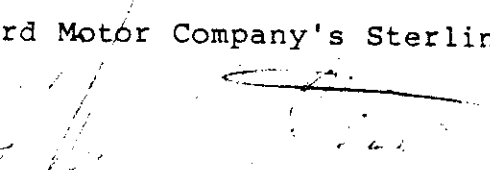
AS AND FOR A SEVENTH AFFIRMATIVE DEFENSE

41. Respondent repeats and realleges all of the allegations contained in this answer.

42. By materially changing its interpretation of the regulations, after Respondent has relied in good faith thereon, without public notice or comment and/or by its unreasonable delay in acting upon Respondent's delisting petition, EPA has denied Respondent due process of law in violation of Amendment 5 to the Constitution of the United States and in seeking penalties with respect thereto EPA is also engaged in ex post facto legislative rule making in violation of Article I of the Constitution of the United States.

WHEREFORE Respondent prays that the relief sought by the Complainant be denied and the complaint be dismissed with prejudice and without costs to Respondent.

Ford Motor Company's Sterling Plant

by 

Norman W. Bernstein
Associate Counsel - Ford Motor Company
World Headquarters
Room 1121
Dearborn, Michigan 48121
313-322-4891



Office of the General Counsel

Ford Motor Company
The American Road
Dearborn, Michigan 48121
October 25, 1984

Ms. Mary Langer
Regional Hearing Clerk
U.S. EPA
Region V
230 South Dearborn Street
Chicago, Illinois 60604

Re: Complaint, Findings of Violation
and Order
Sterling Axle Plant
MID 044 255 420
V-W No. 84R-077

Dear Ms. Langer:

Enclosed please find the answer and request for a hearing
of Respondent in the above-entitled matter.

Very truly yours,

Norman W. Bernstein
Associate Counsel

NWB/be
Attachment

✓cc: Rodger C. Field
Asst. Regional Counsel

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

IN THE MATTER OF:

FORD MOTOR COMPANY
STERLING AXLE PLANT
39000 MOUND ROAD
STERLING HEIGHTS,
MICHIGAN

)
)
)
)
)
)
)

Docket No. V-W No. 84 R 077

ANSWER

MID 044 255 420

The Respondent, Ford Motor Company's Sterling Plant (formerly known as the Sterling Axle Plant) by its Counsel, requests a hearing and answers the Complaint as follows:

Answering the first unnumbered paragraph of the Complaint, Respondent makes no answer to said paragraph for the reason that such allegations represent the mere conclusions of the pleader to which no responsive pleadings are required.

Answering the second unnumbered paragraph of the Complaint, Respondent neither admits nor denies the allegations contained therein for lack of information or knowledge sufficient to form a belief thereto, and therefore leaves the pleader to its proofs.

Answering the third unnumbered paragraph of the Complaint, Respondent denies any violation of the laws or regulations cited therein except that Respondent neither admits nor denies the allegation contained therein with respect to 40 C.F.R. 262.34 (a)(3) for lack of information or knowledge sufficient to form a belief thereto, and therefore leaves the pleader to its proofs.

With respect to the findings and determinations, Respondent answers as follows:

1. Respondent makes no answer to paragraph 1 for the reason that such allegations are the mere conclusions of the pleader as to the legal effect of the provisions of the Resource Conservation and Recovery Act (RCRA) and no responsive pleading is required. Respondent refers to the statute for terms thereof.

2. Respondent admits the allegations contained in paragraph 2.

3. Respondent admits the publication on May 19, 1980 and thereafter of certain regulations. With respect to the remaining allegations in paragraph 3, Respondent makes no answer for the reason that such allegations represent the mere conclusions of the pleader as to the requirements and legal effect of laws and regulations to which no responsive pleading is required. Respondent refers to RCRA and their regulations for the terms thereof.

4. Respondent makes no answer to the allegations in paragraph 4 of the Complaint which represent the mere conclusions of the pleader as to the legal effect of certain provisions of RCRA and regulations to which no responsive pleading is required. Respondent refers to RCRA and the regulations for the terms thereof.

5. Respondent admits that Ford Motor Company owns and that it operates the described facility and that Sidney Kelly is a

registered agent for service of process. Respondent denies that it is a Michigan corporation.

6. Respondent admits that an inspection of the facility was conducted by the Michigan Department of Natural Resources (MDNR) on or about June 25, 1984. Respondent neither admits nor denies the remaining allegations contained in paragraph 6 for lack of information or knowledge sufficient to form a belief thereto and therefore leaves the pleader to its proofs.

7. Respondent denies the allegations of paragraph 7.

8. Respondent admits that no waste has been deposited in the two surface impoundments since August, 1980. Respondent avers that with respect to the northeast surface impoundment, no waste has been disposed of in or removed from this impoundment since the northwest impoundment was completed in about the fall of 1970. Respondent additionally avers with respect to the northwest surface impoundment that no waste water treatment sludge was disposed of in this impoundment since on or about January 9, 1973 and that this impoundment was also used for the disposal of storm pond dredgings. The last disposal of such dredgings occurred in or about August of 1980. Respondent denies the remaining allegations in paragraph 8.

9. Respondent denies that the two surface impoundments are either "active" facilities or "storage" facilities, denies the conclusion of law as to the definition of "storage" contained in the second sentence of paragraph 9, denies that it is required to comply with the cited regulations and makes no answer to the other allegations of paragraph 9 since such allegations represent the

mere conclusions of the pleader as to which no responsive pleading is required.

10. Respondent admits that it has not submitted a Part A permit application and that no permit was received, denies that any permit was required, and denies the remaining allegations of paragraph 10.

11. Respondent makes no answer to the allegations of paragraph 11 for the reason that such allegations represent the mere conclusions of the pleader as to the legal effect of certain regulations to which no answer is required. Respondent refers to the regulations for the terms thereof.

12. Respondent admits that a petition was filed with the Administrator of the United States Environmental Protection Agency (EPA) on August 19, 1983 which asserted that the wastes should not be considered RCRA hazardous wastes and sought to exclude the Sterling Plant wastewater treatment sludge in the two surface impoundments from classification as a listed hazardous waste and denies that such application was based on information provided to the MDNR as alleged.

13. Respondent makes no answer to the allegations of paragraph 13 for the reason that such allegations represent the mere conclusions of the pleader as to the legal effect of certain regulations to which no answer is required. Respondent refers to the regulations for the terms thereof.

14. Respondent admits that the petition to delist waste has not yet been approved by the Administrator of EPA and denies the remaining allegations of paragraph 14.

15. Respondent makes no answer to the allegations of paragraph 15 for the reason that such allegations represent the mere conclusions of the pleader as to the legal effect of certain regulations to which no answer is required. Respondent refers to the regulations for the terms thereof.

16. Respondent denies the allegations of paragraph 16 except that it admits that as of June 25, 1984 it had not implemented a groundwater monitoring program and did not have a written groundwater waiver demonstration for the surface impoundments.

17. Respondent denies the allegations of paragraph 17, except to the extent that paragraph 17 seeks to characterize the legal effect of certain regulations, no responsive pleading is required and Respondent refers to the regulations for the terms thereof.

18. Respondent makes no answer to the allegations of paragraph 18 for the reason that such allegations represent the mere conclusions of the pleader as to the legal effect of certain regulations to which no answer is required. Respondent refers to the regulations for the terms thereof.

19. Respondent denies the allegations of paragraph 19 except that it admits that on June 25, 1984, Respondent did not provide a written operating record for the surface impoundments.

20. Respondent makes no answer to the allegations of paragraph 20 for the reason that such allegations represent the mere conclusions of the pleader as to the legal effect of certain regulations to which no answer is required. Respondent refers to the regulations for the terms thereof.

21. Respondent denies the allegations of paragraph 21 except that it admits that on June 25, 1984, Respondent did not provide a closure plan for the surface impoundments.

22. Respondent makes no answer to the allegations of paragraph 22 for the reason that such allegations represent the mere conclusions of the pleader as to the legal effect of certain regulations to which no answer is required. Respondent refers to the regulations for the terms thereof.

23. Respondent denies the allegations of paragraph 23 except that it admits that on June 25, 1984 the freeboard level and dikes were not being inspected daily and weekly, respectively.

24. Respondent makes no answer to the allegations of paragraph 24 for the reason that such allegations represent the mere conclusions of the pleader as to the legal effect of certain regulations to which no answer is required. Respondent refers to the regulations for the terms thereof.

25. Respondent is without knowledge or information sufficient to form a belief as to the truth of the allegations of

paragraph 25, except Respondent admits that on or about June 25, 1984, two containers were not labeled or clearly marked with the words "Hazardous Waste."

AS AND FOR A FIRST AFFIRMATIVE DEFENSE

Respondent states that the complaint fails to state a claim upon which relief can be granted.

AS AND FOR A SECOND AFFIRMATIVE DEFENSE

26. Respondent repeats and realleges the allegations contained in all paragraphs of this answers.

27. On or about August 1980, EPA published, regarding the RCRA regulations, a document entitled "Hazardous Waste Management A Guide to the Regulations" and had published preambular language in the May 1980 RCRA regulations.

28. Claimant knew or reasonably should have known that companies in the position of Respondent would rely upon the Guide and preambular language and upon information and belief EPA intended them to so rely.

29. Respondent in fact relied upon the Guide and preamble to its detriment.

30. Claimant is estopped from claiming that Respondent's facilities are "active" and subject to the RCRA regulations.

AS AND FOR A THIRD AFFIRMATIVE DEFENSE

31. Respondent repeats and realleges the allegation contained in this answer.

32. Claimant is barred by laches from asserting that Respondent's facilities are "active" and subject to RCRA regulations.

AS AND FOR A FOURTH AFFIRMATIVE DEFENSE

33. Respondent repeats and realleges all of the allegations contained in this answer.

34. EPA had an obligation to review Respondent's delisting petition in a reasonably diligent manner in accordance with the then existing law.

35. EPA failed to act with reasonable diligence in determining the merits of Respondent's delisting petition.

36. By reason of the unreasonable delay, as aforesaid, in reviewing the delisting petition, Claimant is estopped from alleging that the material referred to in the Complaint is hazardous.

AS AND FOR A SIXTH AFFIRMATIVE DEFENSE

39. Respondent repeats and realleges all of the allegations contained in this answer.

40. By proceeding on an interpretation that is inconsistent with its prior interpretation, upon which Respondent relied, EPA is engaged in interpretative or other rule making in violation of the Administrative Procedure Act (or is otherwise required to give public notice thereof, which it has not done) and such interpretation is null and void and of no effect.

AS AND FOR A SEVENTH AFFIRMATIVE DEFENSE

41. Respondent repeats and realleges all of the allegations contained in this answer.

42. By materially changing its interpretation of the regulations, after Respondent has relied in good faith thereon,

without public notice or comment and/or by its unreasonable delay in acting upon Respondent's delisting petition, EPA has denied Respondent due process of law in violation of Amendment 5 to the Constitution of the United States and in seeking penalties with respect thereto EPA is also engaged in ex post facto legislative rule making in violation of Article I of the Constitution of the United States.

WHEREFORE Respondent prays that the relief sought by the Complainant be denied and the complaint be dismissed with prejudice and without costs to Respondent.

Ford Motor Company's Sterling Plant

by 

Norman W. Bernstein
Associate Counsel - Ford Motor Company
World Headquarters
Room 1121
Dearborn, Michigan 48121
313-322-4891



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:
5HW-13

SEP 24 1984

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Sidney Kelly
Registered Agent for
Ford Motor Company
American Road
Dearborn, Michigan 48121

84 R-077

Re: Complaint,
Findings of Violation and Order
Sterling Axle Plant
MID 044 255 420

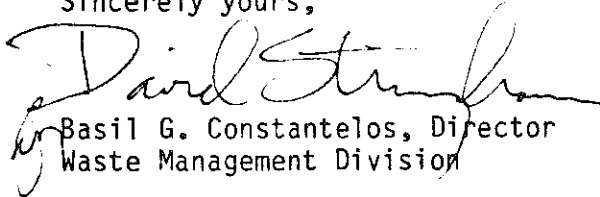
Dear Mr. Kelly:

Enclosed please find a Complaint which specifies this Agency's determination of certain violations by your company of the Resource Conservation and Recovery Act (RCRA) as amended, 42 U.S.C. §6901 et seq. This Agency's determination is based on information in our files about your facility at 39000 Mound Road, Sterling Heights, Michigan. The Findings in the Complaint state the reasons for such a determination. In essence, the facility violated regulations applicable to generators of hazardous waste and to owners and operators of hazardous waste treatment, storage and disposal facilities during the period of interim status under Sections 3002, 3004, 3005 and 3010 of RCRA, 42 U.S.C. §6922, §6924, §6925 and §6930, respectively.

Accompanying the Complaint is a Notice of Opportunity for Hearing. Should you desire to contest the Complaint, or penalty, a written request for a hearing is required to be filed with Ms. Mary Langer, Regional Hearing Clerk at the United States Environmental Protection Agency (U.S. EPA), 230 South Dearborn Street, Chicago, Illinois 60604, within thirty (30) days from receipt of this Complaint. A copy of your request should be sent to Rodger C. Field, Assistant Regional Counsel, U.S. EPA at the above address.

If you have any questions, or desire to request an informal conference for the purpose of settlement, please contact Mr. Ronald Kolzow, Waste Management Branch, U.S. EPA, 230 South Dearborn Street, Chicago, Illinois 60604. Mr. Kolzow may be reached at (312) 886-5145.

Sincerely yours,



Basil G. Constantelos, Director
Waste Management Division

Enclosures

cc: Mr. E. C. Koops
Plant Manager
Ford Motor Company, Sterling Axle Plant
39000 Mound Road
Sterling Heights, Michigan 48078

Del Rector, Director
Hazardous Waste Division
Michigan Department of Natural Resources
Lansing, Michigan 48909

Mr. Larry AuBuchon
Michigan Department of Natural Resources
Detroit District Office
15500 Sheldon
Northville, Michigan 48167

If you have any questions, or desire to request an informal conference for the purpose of settlement, please contact Mr. Ronald Kolzow, Waste Management Branch, U.S. EPA, 230 South Dearborn Street, Chicago, Illinois 60604. Mr. Kolzow may be reached at (312) 886-5145.

Sincerely yours,

Basil G. Constantelos, Director
Waste Management Division

Enclosures

cc: Mr. E. C. Koops ✓
Plant Manager
Ford Motor Company, Sterling Axle Plant
39000 Mound Road
Sterling Heights, Michigan 48078

Del Rector, Director ✓
Hazardous Waste Division
Michigan Department of Natural Resources
Lansing, Michigan 48909

Mr. Larry AuBuchon ✓
Michigan Department of Natural Resources
Detroit District Office
15500 Sheldon
Northville, Michigan 48167

bcc: Regional Hearing Clerk ✓

Ms. M. Friedland (WH-527) ✓
U.S. EPA, Office of Waste Programs Enforcement

Rodger C. Field ✓
Office of Regional Counsel

Denise Reape, Secretary ✓
Technical, Permits and Compliance Section

5HW-13:RKOLZOW:ssmith:9/4/84

ORC
R-7
9/12/84
9/14
mc

INITIALS	TYPIST	AUTHOR	STU #1 CHIEF	STU #2 CHIEF	STU #3 CHIEF	TPS CHIEF	WMB CHIEF	WMD CHIEF
	18 9-5-84	RK 9-6-84			WEN 9/7/84	WMB 9/10/84	KJH 9/10/84	DAS 9/17/84

9/10/84
9/10/84
9/10/84

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

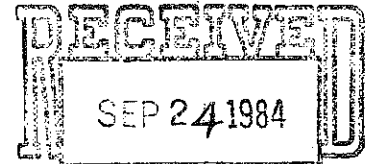
IN THE MATTER OF:

V-W- 84 R-077

FORD MOTOR COMPANY
STERLING AXLE PLANT
39000 MOUND ROAD
STERLING HEIGHTS, MICHIGAN
MID 044 255 420

) DOCKET NO.
)
) COMPLAINT, FINDINGS
) OF VIOLATION, AND ORDER
)

COMPLAINT



REGIONAL HEARING CLERK
U.S. ENVIRONMENTAL
PROTECTION AGENCY

This Complaint is issued pursuant to Section 3008 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA or the Act), 42 U.S.C. §6928(a)(1), and the United States Environmental Protection Agency's Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR Part 22. The Complainant is the Director of the Waste Management Division, Region V, United States Environmental Protection Agency (U.S. EPA). The Respondent is the Ford Motor Company, Sterling Axle Plant, located at 39000 Mound Road, Sterling Heights, Michigan.

This Complaint is based on information made available to U.S. EPA by the Michigan Department of Natural Resources (MDNR) as a result of a compliance inspection conducted by MDNR, as an authorized representative of the U.S. EPA, on June 25, 1984, and upon other information contained in U.S. EPA files concerning this facility.

Respondent has been determined to be in violation of 42 U.S.C. §6922, §6924, §6925 and §6930 and regulations promulgated thereunder, in that Respondent has failed to comply with certain standards applicable to generators of hazardous waste and to owners and operators of hazardous waste treatment, storage and disposal facilities. Specifically, Respondent has been determined to be in violation of

regulations 40 CFR 262.34(a)(3), 265.73, 265.90(a), 265.91(a), 265.91(c), 265.92, 265.93(a), 265.93(b), 265.94(a), 265.112, 265.226, 270.10(e), and 270.70.

FINDINGS AND DETERMINATIONS

This determination of violation is based on the following:

1. Section 3010 of RCRA requires any person who generates or transports hazardous waste or owns or operates a facility for the treatment, storage or disposal of hazardous waste to notify U.S. EPA of such activity within 90 days of the promulgation of regulations under Section 3001 of RCRA. Section 3010 of RCRA also provides that no hazardous waste subject to regulation may be transported, treated, stored, or disposed of unless the required notification has been given, 42 U.S.C. §6930. Notification to U.S. EPA of hazardous waste handling was required in most instances no later than August 19, 1980.
2. U.S. EPA published regulations concerning the generation, transportation, and treatment, storage or disposal of hazardous waste on May 19, 1980. These regulations are codified at 40 CFR Parts 260 through 265.
3. Section 3005 of RCRA requires U.S. EPA to publish regulations requiring each person owning or operating a hazardous waste treatment, storage, or disposal facility to obtain a RCRA permit. Such regulations were published on May 19, 1980, and are codified at 40 CFR Parts 270 and 271 (formerly Parts 122 and 123). The regulations require that persons who treat, store, or dispose of hazardous waste submit Part A of the permit application in most instances no later than November 19, 1980.

4. Section 3005(e) of the Act provides that an owner or operator of a facility is authorized to operate a hazardous waste treatment, storage or disposal facility pending final administrative disposition of a permit application provided that: (1) the facility was in existence on November 19, 1980; (2) the requirements of Section 3010(a) of the Act concerning notification of hazardous waste activity have been complied with; and (3) application for a permit has been made. This statutory authority to operate is known as interim status. U.S. EPA regulations implementing these provisions are found at 40 CFR Part 270.
5. Respondent owns and operates a facility located at 39000 Mound Road, Sterling Heights, Michigan. Respondent is a Michigan Corporation whose Registered Agent is Sidney Kelly, American Road, Dearborn, Michigan.
6. A RCRA compliance inspection of the facility was conducted by the MDNR as an authorized representative of U.S. EPA on June 25, 1984.
7. At the time of the inspection, it was determined that the Respondent was storing wastewater treatment sludge from electroplating operations in two surface impoundments. Such sludges are identified and listed as hazardous waste number F006 under Section 3001 of the Act, regulation 40 CFR 261.31.
8. No hazardous waste has been deposited in the two surface impoundments since August, 1980.
9. Storage as defined in 40 CFR 260.10 occurs when waste is held for a temporary period at the end of which the waste is treated, stored or disposed elsewhere. A facility storing hazardous waste that was

placed on-site on or before November 19, 1980, is an active storage facility and is subject to the interim status requirements of RCRA, even if no hazardous waste was placed on-site after November 19, 1980. Therefore, Respondent's facility is an active storage facility and Respondent is required to comply with the regulations at 40 CFR Parts 265 and 270.

10. The storage of hazardous waste was done without a permit and without having achieved interim status, in violation of Section 3005(a) of RCRA. Interim status was not achieved because Respondent has not submitted a Part A permit application for storage of F006 hazardous waste as required by 40 CFR 270.10(e) and Section 3005 of RCRA.
11. 40 CFR 265.1(b) provides in part that the standards of 40 CFR Part 265 apply to owners and operators of hazardous waste treatment, storage or disposal facilities in existence on November 19, 1980, who failed to provide timely notification as required by Section 3010(a) of RCRA, and/or failed to file Part A of the permit application as required by 40 CFR 270.10(e) and (g).
12. Based on information provided to the MDNR on June 25, 1984, Respondent petitioned the U.S. EPA Administrator on August 19, 1983, to delist hazardous waste number F006 as it applies to the Sterling Axle Plant.
13. 40 CFR 260.22 provides that any person seeking to exclude a waste at a particular generating facility from the lists in Subpart D of 40 CFR Part 261 may petition for a regulatory amendment under this section. To be successful, the petitioner must demonstrate to the

satisfaction of the U.S. EPA Administrator that the waste produced by a particular generating facility does not meet any of the criteria under which the waste was listed as hazardous waste.

14. The petition to delist hazardous waste F006 for the Sterling Axle Plant has not been approved by the Administrator. Therefore, Respondent is subject to the requirements of Subtitle C of RCRA concerning the handling of these wastes.
15. Regulation 40 CFR 265.90(a) requires an owner/operator to implement a groundwater monitoring program by November 19, 1981, capable of determining the impact of the facility's surface impoundments on the quality of groundwater in the uppermost aquifer underlying the facility.
16. At the time of the June 25, 1984, inspection conducted by MDNR, Respondent had not implemented a groundwater monitoring program and could not provide a written groundwater monitoring waiver demonstration for the facility. Therefore, the Respondent violated 40 CFR 265.90(a).
17. Regulations 40 CFR 265.91, 265.92, 265.93 and 265.94 address several components of the groundwater monitoring program. In failing to initiate a timely groundwater monitoring program as required in 40 CFR 265.90(a), Respondent has also violated those regulations relevant to the groundwater monitoring program: 40 CFR 265.91(a)-groundwater monitoring system; 265.91(c)-well construction; 265.92-sampling and analysis; 265.93(a)-groundwater quality assessment outline; 265.93(b)-statistical analysis; and 265.94(a) recordkeeping and reporting.
18. Regulation 40 CFR 265.73 requires the owner/operator of a surface impoundment to keep a written operating record at the facility.

19. At the time of the June 25, 1984, inspection conducted by the MDNR, the Respondent was unable to provide a written operating record for the surface impoundments. Therefore, Respondent violated 40 CFR 265.73.
20. Regulation 40 CFR 265.112 requires the owner/operator of a surface impoundment to have a written closure plan. He must keep a copy of the closure plan and all revisions to the plan at the facility until closure is completed and certified in accordance with 40 CFR 265.115.
21. At the time of the June 25, 1984, inspection conducted by the MDNR, the Respondent was unable to provide a closure plan for the surface impoundments. Therefore, Respondent violated 40 CFR 265.112.
22. Regulation 40 CFR 265.226 requires the owner/operator of a surface impoundment to inspect both the freeboard level at least once each operating day to ensure compliance with 40 CFR 265.222, and the dikes at least once a week for evidence of leaks or deterioration.
23. At the time of the June 25, 1984, inspection conducted by the MDNR, the freeboard level and dikes were not being inspected daily and weekly, respectively, by the Respondent. Therefore, Respondent violated 40 CFR 265.226.
24. Regulation 40 CFR 262.34(a)(3) requires a generator of hazardous waste to label or clearly mark each container being accumulated on-site with the words, "Hazardous Waste".

25. At the time of the June 25, 1984, MDNR inspection, Respondent accumulated two containers of hazardous waste that were not marked with the words, "Hazardous Waste". Therefore, Respondent violated 40 CFR 262.34(a)(3).

ORDER

Respondent having been initially determined to be in violation of 42 U.S.C. §6922, §6924, §6925 and §6930, the following Compliance Order pursuant to 42 U.S.C. §6928(a)(1) is entered:

- A. Respondent shall immediately comply with all the requirements for generators of hazardous waste contained in 40 CFR Part 262.
- B. Respondent shall, within 45 days of receipt of this Order, cease all treatment, storage or disposal of hazardous waste at the facility except such treatment, storage or disposal as shall be in complete compliance with the Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities, 40 CFR Part 265.
- C. Respondent shall, within 30 days of receipt of this Order, provide U.S. EPA with the following:
 - 1. A groundwater monitoring program in accordance with 40 CFR 265.90 which is consistent with the requirements of 40 CFR 265.91 and which includes both a schedule for installation and operation of the monitoring system and a schedule for complying with the recordkeeping and reporting requirements of 40 CFR 265.94;
 - 2. A groundwater sampling and analysis plan in accordance with 40 CFR 265.92;

3. An outline of a groundwater quality assessment program in accordance with 40 CFR 265.93; and
 4. A closure plan that identifies the steps necessary to completely or partially close the facility at any point during its intended operating life and to completely close the facility at the end of its intended operating life. The closure plan must be consistent with the requirements of 40 CFR 265.111 through 265.115.
- D. Respondent shall, within 45 days of receipt of this Order, achieve compliance with the requirement in 40 CFR 265.91 and 265.92 to install, operate and maintain a groundwater monitoring system.

Notwithstanding any other provisions of this Order, an enforcement action may be brought pursuant to Section 7003 of RCRA or other statutory authority where the handling, storage, treatment, transportation, or disposal of solid waste or hazardous waste at the facility may present an imminent and substantial endangerment to human health or the environment.

ASSESSMENT OF PENALTY

In view of the above, and pursuant to Section 3008(c) and (g) of RCRA, the U.S. EPA assesses a penalty of TWENTY-FOUR THOUSAND AND SEVEN HUNDRED DOLLARS (\$24,700) against the Respondent. The proposed penalty has been set at the indicated level based upon an analysis of the seriousness of the violations cited herein, the potential harm to human health and the environment, and the conduct of the Respondent. Payment shall be submitted within 60 days of entry of this Order, in the form of a certified or cashier's check made payable to the Treasury of the United States of America and remitted to Ms. Mary Langer,

Regional Hearing Clerk, U.S. EPA, 230 South Dearborn Street, Chicago, Illinois 60604.

Failure to comply with any requirement of the Order shall subject Respondent to liability for a civil penalty of not more than \$25,000.00 per day for each day such violation occurs.

NOTICE OF OPPORTUNITY FOR HEARING

The Respondent is hereby notified that the above Order may become final or a default Order may be entered upon motion unless said person has requested a public hearing, in writing, no later than 30 days from the date this Order is served. You have the right to request a public hearing to contest any material factual allegation set forth in the Complaint or the appropriateness of any proposed compliance schedule or penalty. In the event you wish to request a hearing, and to avoid having the Compliance Order become final without further proceedings, you must file a written answer to this Complaint with Ms. Mary Langer, the Regional Hearing Clerk, U.S. EPA, Region V, 230 South Dearborn Street, Chicago, Illinois 60604, within 30 days of your receipt of this notice. A copy of this answer and any subsequent document filed in this action should also be sent to the Office of the Regional Counsel, at the same address, to the attention of Rodger C. Field. Your answer should clearly and directly admit, deny, or explain each of the factual allegations of which you have knowledge. Said answer should contain (1) a definite statement of the facts which constitute the grounds of defense, and (2) a concise statement of the facts which you intend to place at issue in the hearing. The denial of any material fact or the raising of any affirmative defense shall be construed as a request for a hearing.

A copy of the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits (40 CFR 22, 45 Federal Register 24367, April 4, 1980; as amended by 45 Federal Register 79898, December 2, 1980), accompanies this Complaint. These regulations are applicable to this administrative action including the filing of any answer.

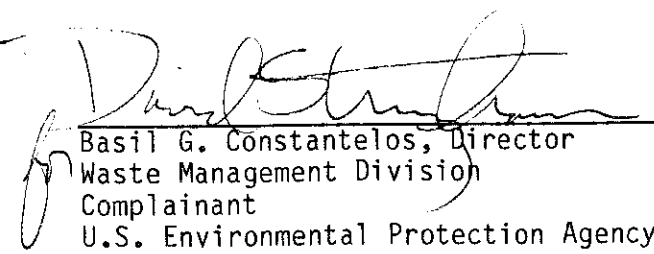
SETTLEMENT CONFERENCE

Whether or not you request a hearing, you may confer informally with U.S. EPA concerning: (1) whether the alleged violations in fact occurred as set forth above; (2) the appropriateness of the compliance schedule; and (3) the appropriateness of any penalty assessment in relation to the size of your business, the gravity of the violations, and the effect of the penalty on your ability to continue in business.

You may request an informal settlement conference by contacting this office. However, any such request will not affect the 30 day limit for responding to this Complaint and requesting a formal public hearing on violations alleged herein. U.S. EPA encourages all parties to pursue the possibilities of settlement through informal conferences.

Request for an informal conference should be made to: Mr. Ronald Kolzow, Waste Management Division, 230 South Dearborn Street, Chicago, Illinois 60604. The telephone number is (312) 886-5145.

Signed this 17th day of September, 1984.


Basil G. Constantelos, Director
Waste Management Division
Complainant
U.S. Environmental Protection Agency
Region V

CERTIFICATE OF SERVICE

I hereby certify that I have caused copies of the foregoing Complaint to be served upon the persons designated below on the date below, by causing said copies to be deposited in the U.S. Mail, First Class and certified return receipt requested, postage prepaid, at Chicago, Illinois in envelopes addressed to:


Mr. Sidney Kelly
Registered Agent for
Ford Motor Company
American Road
Dearborn, Michigan 48121

Mr. E. C. Koops, Plant Manager
Ford Motor Company
Sterling Axle Plant
39000 Mound Road
Sterling Heights, Michigan 48078

I have further caused the original of the Complaint and this certificate of service to be served in the office of the Regional Hearing Clerk located in the Regional Counsel's Office, U.S. EPA, Region V at 230 South Dearborn Street, Chicago, Illinois 60604 on the date below.

These are said persons' last known addresses to the subscriber.

Dated this 24th day of September, 1984.



Waste Management Branch
U.S. EPA, Region V

PART I. BACKGROUND

FACILITY NAME Ford Motor Co. - Sterling Axle Plant
 FACILITY LOCATION Sterling Heights, Michigan
 RCRA ID NUMBER MID 044255420
 NATURE OF VIOLATION Groundwater monitoring, closure plan, inspections, operating without interim status or permit
 ANY OTHER OUTSTANDING OR PAST ENFORCEMENT ACTIONS AGAINST THIS FACILITY:

SEP 1

1984

WATER

AIR

OTHER

PART II. RECOMMENDATION

Order with penalty amount \$24,700

PART III. CONCURRENCES ON DRAFT

	INITIALS	DATE	AGREE	DISAGREE
PREPARER TECHNICAL	<u>RIC</u>	<u>8/3/84</u>	(✓)	()
CHIEF, STATE TECHNICAL UNIT	<u>WEM</u>	<u>8/7/84</u>	(X)	()
CHIEF, TP&C SECTION	<u>LOHN</u>	<u>8/6/84</u>	(X)	()
ASSISTANT REGIONAL COUNSEL			()	()

NAME & DATE OF STATE CONTACT NOTIFIED _____

PART IV. APPROVAL

1. PREPARER TECHNICAL	<u>RK</u>	<u>9/6/84</u>	(✓)	()
2. CHIEF, STATE TECHNICAL UNIT	<u>WEM</u>	<u>9-7-84</u>	()	()
3. CHIEF, TP&C SECTION	<u>WTHW</u>	<u>9/10/84</u>	(✓)	()
4. CHIEF, WASTE MAN. BRANCH	<u>KJK</u>	<u>9/10/84</u>	(✓)	()

OFFICE OF REGIONAL COUNSEL

5. ASSIST. REG. COUNSEL	<u>R. Field</u>	<u>8/24</u>	(✓)	()
6. CHIEF, SOLID WASTE & EMER. RESPONSE BR.	<u>mc</u>	<u>8/30</u>	(X)	()

7. REGIONAL COUNSEL			()	()
DIRECTOR, WASTE MAN. DIV.	<u>JAS</u>	<u>9/17</u>	(✓)	()

cc: Section Log
 ORC

Please
 reinitial
 the final



RECEIVED
AUG 09 1984

WASTE MANAGEMENT
BRANCH

Transmission and Chassis Division
Ford Motor Company

Sterling Plant
39000 Mound Road
Sterling Heights, Michigan 48078

July 31, 1984

Mr. L. Aubuchon
Hazardous Waste Division
Detroit District Office
1120 W. State Fair Ave.
Detroit, Michigan 48203

RECEIVED
AUG 2 1984

Subject: USEPA - RCRA Compliance Inspection
Ford Motor Company - Sterling Plant
EPA I.D. No. MID 044255420

Reference: Your Letter Dated June 26, 1984 (Copy Attached).

Dear Mr. Aubuchon:

This letter is in response to your referenced letter and the alleged violations of subtitle C of the Resource Conservation and Recovery Act (RCRA). These alleged violations resulted from your June 25, 1984 facility compliance inspection at the Sterling Plant.


Specifically, items numbered 1, 2, 3, 5, 6 and 7, are all items concerning the Northeast and Northwest lagoons. As was indicated to you by Mr. J. Garavanta during your facility inspection, and again by Mr. J. Amber of our Stationary Source Environmental Control Office during a phone conversation on June 26, 1984; the N.E. and N.W. lagoons are inactive facilities as defined in 40 CFR 260.10. No waste materials have been deposited in these lagoons since August, 1980. As specified in 40 CFR 265.1 (b), these lagoons are not subject to RCRA Part A application regulations nor the Federal Interim Status Standards of 40 CFR 265.

In addition, it should be noted, that these lagoons are the subject of a RCRA delisting petition submitted to USEPA on August 19, 1983. Administrative disposition of this matter is anticipated later this year.

The two drums of scrap paint solvent, identified as item number 4 in the attached letter, have been labeled "Hazardous Waste".

If you have any further questions, please contact Mr. J. Garavanta at (313) 826-5789.

Very truly yours,


E.C. Koops
Plant Manager
Sterling Plant

Attachment

RCRA Inspection Report

EPA Identification Number: M I D 0 4 4 2 5 5 4 2 0

Installation Name: FM Co. Sterling Axle Plant

Location Address: 39000 Monard Road

City: Sterling Heights State: Michigan

Date of inspection: 6/25/84 Time of inspection (from) 0930 (to) 1145

Person(s) interviewed	Title	Telephone
<u>Jack Garavanta</u>	<u>Environ. Eng</u>	<u>(313) 977-5789</u>
_____	_____	_____
_____	_____	_____

Inspector(s)	Agency/Title	Telephone
<u>Larry A. Buchan</u>	<u>MDNR - HWD / WQS</u>	<u>(313) 368-3335</u>
_____	_____	_____

Installation Activity (mark only one box)

Inspection Form(s)

- | | |
|---|------|
| <input checked="" type="checkbox"/> Treatment/Storage/Disposal per 40 CFR 265.1 and/or
Generation and/or Transportation | A |
| <input type="checkbox"/> Treatment/Storage/Disposal (no generation or Transportation) | A |
| <input type="checkbox"/> Generation and Transportation | B, C |
| <input type="checkbox"/> Generation only | B |
| <input type="checkbox"/> Transportation only | C |

PA
Company

INSPECTION FORM A

Section A: SCOPE OF INSPECTION.

1. Interim status standards for treatment storage or disposal of HAZARDOUS WASTES SUBJECT TO 40 CFR 265.1. Complete Inspection Form A sections B, C, D, E, and G.
2. Place an "X" in the box(es) corresponding to the facility's treatment, storage and disposal processes, and generation and/or transportation activity (if any). Complete only the applicable sections and appendixes.

Permit application process(es) (EPA Form 3510-3) Inspection Form A section(s)

S01	<input checked="" type="checkbox"/>	storage in containers	See Remarks	I
S02	<input type="checkbox"/>	storage in tanks	See Remarks No longer stores in tanks	J
T01	<input type="checkbox"/>	treatment in tanks		J
S04	<input checked="" type="checkbox"/>	storage in surface impoundment	See Remarks	K,F
T02	<input type="checkbox"/>	treatment in surface impoundment		K,F
D83	<input type="checkbox"/>	disposal in surface impoundment		K,F
S03	<input type="checkbox"/>	storage in waste pile		L
D81	<input type="checkbox"/>	disposal by land application		M,F
D80	<input type="checkbox"/>	disposal in landfill		N,F
T03	<input type="checkbox"/>	treatment by incineration		O/P
T04	<input type="checkbox"/>	treatment in devices other than tanks, surface impoundments, or incinerators		Q

Other activities

GENERATOR	<input checked="" type="checkbox"/>	APPENDIX	GN
TRANSPORTER	<input type="checkbox"/>	APPENDIX	TR

3. Indicate any hazardous waste processes, by process code, which have been omitted from Part A of the facility's permit application.
4. Indicate any hazardous waste processes (by process code and line number on EPA Form 3510-3 page 1 of 5) which appear to be eligible for exclusion per 40 CFR 265.1(c). Provide a brief rationale for the possible exclusion.

Section B: GENERAL FACILITY STANDARDS: (Part 265 Subpart B)

	YES	NO	NI*	Remarks
1. Has the Regional Administrator been notified regarding: 265.12				
a. Receipt of hazardous waste from a foreign source?				No Receipt
b. Facility expansion?				No Expansion
c. Change of owner or operator?				No change
2. General Waste Analysis: 265.13				
a. Has the owner or operator obtained a detailed chemical and physical analysis of the waste?	X			
b. Does the owner or operator have a detailed waste analysis plan on file at the facility?		X		no formal plan devised.
c. Does the waste analysis plan specify procedures for inspection and analysis of each movement of hazardous waste from off-site?		X		
3. Security - Do security measures include: (if applicable) 265.14				
a. 24-Hour surveillance?	X			
or				
b. i. Artificial or natural barrier around facility?	X			
and				
ii. Controlled entry?	X			
c. Danger sign(s) at entrance?		X		
4. Owner or operator inspections: 265.15				
a. Does the owner or operator inspect the facility for malfunctions, deterioration, operator errors, and discharges of hazardous waste that may affect human health or the environment?	X			

*Not Inspected

	YES	NO	NI	Remarks
b. Does the owner or operator have an inspection schedule at the facility?	<u>X</u>	___	___	___
c. If so, does the schedule address the inspection of the following items:				
i. monitoring equipment?	<u>X</u>	___	___	___
ii. safety and emergency equipment?	<u>X</u>	___	___	___
iii. security devices?	<u>X</u>	___	___	___
iv. operating and structural equipment (i.e. dikes, pumps, etc.)?	<u>X</u>	___	___	___
v. type of problems to be looked for during the inspection (e.g. leaky fitting, defective pump, etc.)?	<u>X</u>	___	___	___
vi. inspection frequency (based upon the possible deterioration rate of the equipment)?	<u>X</u>	___	___	___
d. Are areas subject to spills inspected daily when in use?	<u>X</u>	___	___	___
e. Does the owner or operator maintain an inspection log or summary of owner or operator inspections?	<u>X</u>	___	___	___
f. Does the inspection log contain the following information:				
i. the date and time of the inspection?	<u>X</u>	___	___	<i>* only monthly inspection of impoundments which are inactive.</i>
ii. the name of the inspector?	<u>X</u>	___	___	<i>time was not included</i>
iii. a notation of the observations made?	<u>X</u>	___	___	___
iv. the date and nature of any repairs or remedial actions?	<u>X</u>	___	___	___
5. Do personnel training records include: 265.16				
a. Job titles?	<u>X</u>	___	___	<i>Personnel</i>
b. Job descriptions?	<u>X</u>	___	___	<i>"</i>

	YES	NO	NI	Remarks
c. Description of training?	<u>X</u>	___	___	_____
d. Records of training?	<u>X</u>	___	___	_____
e. Did facility personnel receive the required training by 5-19-81?	<u>X</u>	___	___	_____
f. Do new personnel receive required training within six months?	<u>X</u>	___	___	_____
g. Do personnel training records indicate that personnel have taken part in an annual review of initial training?	<u>X</u>	___	___	_____
6. If required, are the following special requirements for ignitable, reactive, or incompatible wastes addressed? 265.17				
a. Special handling?	___	___	___	<u>not required</u>
b. No smoking signs?	<u>X</u>	___	___	_____
c. Separation and protection from ignition sources?	<u>X</u>	___	___	_____

Section C: PREPAREDNESS AND PREVENTION: (Part 265 Subpart C)

1. Maintenance and Operation
of Facility: 265.31

Is there any evidence of fire,
explosion, or release of
hazardous waste or hazardous
waste constituent?

YES NO NI Remarks

— X —

2. If required, does the facility
have the following equipment: 265.32

a. Internal communications or
alarm systems?

X — —

b. Telephone or 2-way radios
at the scene of operations?

X — —

c. Portable fire extinguishers,
fire control, spill control
equipment and decontamination
equipment?

X — —

Indicate the volume of water and/or foam available for fire control:

3. Testing and Maintenance of
Emergency Equipment: 265.33

a. Has the owner or operator
established testing and
maintenance procedures
for emergency equipment?

X — —

b. Is emergency equipment
maintained in operable
condition?

X — —

4. Has owner or operator provided
immediate access to internal
alarms? (if needed) 265.34

X — —

5. Is there adequate aisle space
for unobstructed movement?

— — N/A

6. Has the owner or operator attempted
to make arrangements with local
authorities in case of an emergency
at the facility?

X — — see plan

Section D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES: (Part 265 Subpart D)

YES NO NI Remarks

1. Does the Contingency Plan contain the following information: 265.52

a. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control, and Counter-measures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.)

X — —

b. Arrangements agreed by local police departments, fire departments hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to §265.37?

— — X

on-site security, fire, medical

c. Names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinators?

Y — —

d. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list and a brief outline of its capabilities?

Y — —

e. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes?)

— — N/A

2. Are copies of the Contingency Plan available at the site and local emergency organizations? 265.53

X — —

	YES	NO	NI	Remarks
3. Emergency Coordinator 265.55				
a. Is the facility Emergency Coordinator identified?	<u>X</u>	—	—	
b. Is coordinator familiar with all aspects of site operation and emergency procedures?	<u>X</u>	—	—	
c. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?	<u>X</u>	—	—	
4. Emergency Procedures 265.56				
If an emergency situation has occurred at this facility, has the Emergency Coordinator followed the emergency procedures listed in 265.56?				
	—	—	—	<u>No emergency</u>

Section E: MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING: (Part 265 Subpart E)

YES NO NI Remarks

* 1. Use of Manifest System 265.71

a. Does the facility follow the procedures listed in §265.71 for processing each manifest? (Particularly sending a copy of the signed manifest back to the generator within 30 days after delivery.)

N/A

b. Are records of past shipments retained for 3 years?

2. Does the owner or operator meet requirements regarding manifest discrepancies? 265.72

Not applicable to owners or operators of on-site facilities that do not receive any waste from off-site sources.

3. Operating Record 265.73

a. Does the owner or operator maintain an operating record as required in 265.73?

No operating log for impoundments.

b. Does the operating record contain the following information:

i. The method(s) and date(s) of each waste's treatment, storage, or disposal as required in 40 CFR Part 265 Appendix I?

ii. The location and quantity of each hazardous waste within the facility? (This information should be cross-referenced to specific manifest number, if waste was accompanied by a manifest.)

***iii. A map or diagram of each cell or disposal area

*** only applies to disposal facilities

YES NO NI Remarks

showing the location and quantity of each hazardous waste? (This information should be cross-referenced to specific manifest number, if waste was accompanied by a manifest.)

iv. Records and results of all waste analyses, trial tests, monitoring data, and operator inspections?

v. Reports detailing all incidents that required implementation of the Contingency Plan?

vi. All closure and post closure costs as applicable?

4. Availability of Records 265.74

Are all facility records required under 40 CFR Part 265 available for inspection?

5.**Unmanifested Waste Reports 265.76

a. Has the facility accepted any hazardous waste from an off-site generator subject to 40 CFR 262.20 without a manifest or or shipping paper?

b. If "a" is yes, provide the identity of the source of the waste and a description of the quantity, type, and date received for each unmanifested hazardous waste shipment.

N/A

** Not applicable to owners or operators of on-site facilities that do not receive any hazardous from off-site sources.

Section F - GROUNDWATER MONITORING (Part 265 Subpart F)

Complete this section for facilities that treat, store, or dispose of hazardous waste in landfills, surface impoundments and/or by land treatment.

	YES	NO	NI	Remarks
1. Has the owner or operator of the facility implemented a groundwater monitoring system? 265.90	—	<u>X</u>	—	_____
If "no", Skip to number 11.				
2. Has the owner or operator of the facility implemented an alternate groundwater monitoring system as described in 265.90(d)?	—	—	—	_____
If "yes", skip to number 12.				
If "no", continue				
3. Does the groundwater monitoring system meet the following requirements of 265.91:				
a. At least one well installed hydraulically up-gradient from the limit of the waste management area?	—	—	—	_____
Indicate the total number of up-gradient wells.				
b. At least three wells installed hydraulically down-gradient at the limit of the waste management area?	—	—	—	_____
Indicate the total number of downgradient wells.				
c. Are the number, locations, and depths of all wells sufficient to yield groundwater samples that are representative of groundwater under the facility?	—	—	—	_____

8. Has the owner or operator developed an outline of a comprehensive groundwater quality assesment program that is capable of determining: 265.93

a. Whether hazardous waste or hazardous waste constituents have entered the groundwater?

___ ___ ___

b. The rate and extent of migration of hazardous waste or hazardous waste constituents in the groundwater?

___ ___ ___

c. The concentration of hazardous waste or hazardous waste constituents in the groundwater?

___ ___ ___

*9. Has the owner or operator performed a statistical analysis of his groundwater monitoring data as required in 265.93(b)?

___ ___ X

*10. Was there a statistically significant increase (or pH decrease) detected in any well?

___ ___ X

a. If "yes," has the owner or operator responded in accordance with the procedures prescribed in 265.93 paragraphs c through f?

___ ___ X

Skip to number 14

11. Has the owner or operator prepared a written groundwater monitoring waiver demonstration for the facility?

___ X ___

a. Is the waiver demonstration maintained at the facility?

___ ___ ___

b. Has the waiver demonstration been certified by a qualified geologist or geotechnical engineer?

___ ___ ___

Note: Inspectors should request a copy of the waiver document.

c. Skip questions 12, 13, and 14.

*These requirements do not take effect until the first 6 months after November 19, 1982. The latest date for compliance with these requirements is May 19, 1983.

Section C CLOSURE AND POST CLOSURE (Part 65 Subpart G)

YES NO NI Remarks

1. Closure 265.112

a. Is the facility closure plan available for inspection?

YES NO NI

b. Does the plan identify:

i. maximum extent unclosed during facility life?

ii. maximum hazardous waste inventory?

iv. estimated year of closure?

v. schedule of closure activities?

c. Has closure begun?

*2. Post-Closure 265.118

a. Is the post-closure plan available for inspection?

b. Does this plan contain:

i. description of groundwater monitoring activities and frequencies?

ii. description of maintenance activities and frequencies for

AA. integrity of cap, final cover, or containment structures, where applicable

BB. facility monitoring equipment

iii. name, address, and phone number of person or office to contact during post-closure care period?

c. Has the post-closure period begun?

d. Is the written post-closure cost estimate available? 265.144

Applies only to disposal facilities.

Section I - USE AND MANGEMENT OF CONTAINERS (Part 265, Subpart I)

	YES	NO	NI	Remarks
1. Are containers in good condition? 265.171	<u>X</u>	—	—	—
2. Are containers compatible with waste in them? 265.172	<u>X</u>	—	—	—
3. Are containers managed to prevent leaks? 265.173	<u>X</u>	—	—	—
4. Are containers stored closed?	<u>X</u>	—	—	—
5. Are containers inspected weekly for leaks and defects.	<u>X</u>	—	—	—
6. Are ignitable and reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive). 265.176	<u>X</u>	—	—	<u>Ignitable</u>
7. Are incompatible wastes stored in separate containers? (If not, the provisions of 40 CFR 265.17(b) apply). 265.177	—	<u>X</u>	—	<u>No incompatible</u>
8. Are containers of incompatible waste separated or protected from each other by physical barriers or sufficient distance?	—	—	<u>N/A</u>	—

2 containers of scrap paint solvent in storage area - not marked as hazardous

Section J - TANKS (Part 265, Subpart J)

- | | YES | NO | NI | Remarks |
|---|-----|----|----|-------------------------------------|
| 1. Are tanks used to store only those wastes which will not cause corrosion, leakage or premature failure of the tank? 265.192 | | | | Storage tanks are no longer in use. |
| 2. Do uncovered tanks have at least 60 cm (2 feet) of free-board, or dikes or other containment structures? | | | | |
| 3. Do continuous feed systems have a waste-feed cutoff? | | | | |
| 4. Are waste analyses done before the tanks are used to store a substantially different waste than before? 265.193 | | | | |
| 5. Are required daily and weekly inspections done? 265.194 | | | | |
| 6. Are reactive & ignitable wastes in tanks protected or rendered non-reactive or non-ignitable? 265.198
Indicate if waste is ignitable or reactive. (If waste is rendered non-reactive or non-ignitable, see treatment requirements.) | | | | |
| 7. Are incompatible wastes stored in separate tanks? 265.199
(If not, the provisions of 40 CFR 265.17(b) apply.) | | | | |
| 8. Has the owner or operator observed the National Fire Protection Associations buffer zone requirements for tanks containing ignitable or reactive wastes? | | | | |

Tank capacity: _____ gallons

Tank diameter: _____ feet

Distance of tank from property line _____ feet

(See table 2 - 1 through 2 - 6 of NFPA's "Flammable and Combustible Liquids Code - 1977" to determine compliance.)

Section K - SURFACE IMPOUNDMENTS (Part 265, Subpart K)

	YES	NO	NI	Remarks
1. Do surface impoundments have at least 60 cm (2 feet) of freeboard? 265.222	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
2. Do earthen dikes have protective covers? 265.223	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
3. Are waste analyses done when the impoundment is used to store a substantially different waste than before? 265.225	<u> </u>	<u> </u>	<u> </u>	<u> </u>
4. Is the freeboard level inspected at least daily? 265.226	<u> </u>	<u>X</u>	<u> </u>	<u> </u>
5. Are the dikes inspected weekly for evidence of leaks or deterioration?	<u> </u>	<u>X</u>	<u> </u>	<u> </u>
6. Are reactive & ignitable wastes rendered non-reactive or non-ignitable before storage in a surface impoundment? (If waste is rendered non-reactive or non-ignitable, see treatment requirements.) 265.229	<u> </u>	<u> </u>	<u>N/A</u>	<u> </u>
7. Are incompatible wastes stored in different impoundments? (If not, the provisions of 40 CFR 265.17(b) apply.) 265.230	<u> </u>	<u> </u>	<u>N/A</u>	<u> </u>

FOOB sludge in 2- 2,000,000 gallon lagoons (impoundments) which have not been in service since 1980.

3- 120,000 gallon ^{x-1}gruite lined tanks used as process tanks ^{4/82-A}for Waste water Treatment System

Section A: Scope

1. Complete this Appendix if the owner or operator of a TSD facility also generates hazardous waste that is subsequently shipped off-site for treatment, storage, or disposal.

Section B: MANIFEST REQUIREMENTS (Part 262, Subpart B)

	YES	NO	NI	Remarks
(1) Does the operator have copies of the manifest available for review? 262.40	<u>X</u>	_____	_____	_____
(2) Examine manifests for shipments in past 6 months. Indicate approximate number of manifested shipments during that period. <u>5</u>				
(3) Do the manifest forms examined contain the following information: (If possible, make copies of, or record information from, manifest(s) that do not contain the critical elements). 262.21				
a. Manifest document number?	<u>X</u>	_____	_____	_____
b. Name, mailing address, telephone number, and EPA ID number of Generator	<u>X</u>	_____	_____	_____
c. Name and EPA ID Number of Transporter(s)?	<u>X</u>	_____	_____	_____
d. Name, address, and EPA ID Number Designated permitted facility and alternate facility?	<u>X</u>	_____	_____	_____
e. The description of the waste(s) (DOT shipping name, DOT hazard class, DOT identification number)?	<u>X</u>	_____	_____	_____
f. The total quantity of waste(s) and the type and number of containers loaded?	<u>X</u>	_____	_____	_____
g. Required certification?	<u>X</u>	_____	_____	_____
h. Required signatures?	<u>X</u>	_____	_____	_____
(4) Reportable exceptions 262.42				
a. For manifests examined in (2) (except for shipments within the last 35 days), enter the number of manifests for which the generator has <u>NOT</u> received a signed copy from the designated facility within 35 days of the date of shipment. <u>0</u>				
b. For manifests indicated in (4a), enter the number for which the generator has submitted exception reports (40 CFR 262.42) to the Regional Administrator. <u>0</u>				

Section C: PRE-TRANSPORT REQUIREMENTS (Part 262, Subpart C)

	YES	NO	NI	Remarks
1. Is waste packaged in accordance with DOT regulations? (Required prior to movement of hazardous waste off-site) 262.30	—	—	—	<u>Not ready for shipment</u>
Are waste packages marked and labeled in accordance with DOT regulations concerning hazardous waste materials? (Required for movement of hazardous waste off-site) 262.31 262.32	—	—	—	↓ ↓ ↓ ↓
If required, are placards available to transporters of hazardous waste? 262.33	—	—	—	<u>Transporter Provides</u>
On-site accumulation of generated hazardous wastes. A HWMF may accumulate hazardous waste it generates either (A) in its storage facility [265.1(b)] or (B) in accordance with 40 CFR 262.34 [see 265.1(c)(7)]. Option B restricts all accumulation to tanks and containers. If the installation elects option A, check this box <input checked="" type="checkbox"/> and skip to Section D. If the installation elects option B, complete the following observations: See 40 CFR 262.34 January 11, 1982 Revision				
a. Is each container clearly marked with the start of accumulation date?	—	—	—	—
b. Have more than 90 days elapsed since the date inspected in (a)?	—	—	—	—
c. Do wastes remain in accumulation tanks for more than 90 days?	—	—	—	—
d. Is each container and tank labeled or marked clearly with the words "Hazardous Waste"?	—	—	—	—

Section D: - RECORDKEEPING AND REPORTING (Part 262, Subpart D)

	YES	NO	NI	Remarks
Are all test results and analyses needed for hazardous waste determinations retained for at least three years? 262.40	<input checked="" type="checkbox"/>	—	—	—

Section E: - INTERNATIONAL SHIPMENTS (Part 262, Subpart E)

Has the installation imported or exported Hazardous Waste? 262.50	—	<input checked="" type="checkbox"/>	—	—
---	---	-------------------------------------	---	---

(If answered Yes, complete the following as applicable.)

- a. Exporting Hazardous waste; has a generator:

Remarks

FMC - Sterling Arle Pkt.
6/25/84

D008 - waste Oil handled as an Act 136 waste. Oil is reclaimed for net positive gain.

F002 - TCE has been eliminated from use & Safety-Kleen is now under contract.

F011 - Cyanide has been eliminated from use within the heat treat process.

F006 - 2 - 2,000,000 gallon impoundments have not been used since 1980 and sludge is remaining in these impoundments. Company has not filed as storage & is pursuing delisting. Facility does not meet storage requirements under RCRA.

Facility only filed as generator. Delisting submitted, according to company, has been made to EPA. Company indicating waste will be removed.

District 14 Headquarters
2455 N. Williams Lake Road
Pontiac, Michigan 48054

September 29, 1982

TO: Seth Phillips, Office of Hazardous Waste Management
FROM: Andrea Stewart, Air Quality District 3 *AS*
SUBJECT: RCRA Inspection at Ford Sterling Axle Plant

On September 9, 1982 I conducted a RCRA inspection at the above facility in conjunction with Tim Jaski and Bill Stone, both of Water Quality District 1. As the inspection report indicates, the facility is classified as a generator and had no deficiencies under RCRA. The hazardous wastes generated at the plant are:

1. 1,1,1 - Trichloroethane (F002) from manual degreasers ("dip-tanks"). These tanks are cleaned out approximately once every five months. The trichloroethane is brought out to storage building (northeast of main plant complex) in drums, which are then transferred to a 2,000 gallon tank which is rented for the purpose of storing the trichloroethane. The tank is dated and is pumped out by transporter within 90 days.
2. Sodium cyanide (F011) from a heat treating operation. The company was manifesting this waste as P106 but was advised to use F011. This waste solidifies upon cooling and is stored in drums on a pallet in the area of the heat treating process (inside main plant complex). The drums are labeled and dated and transported for disposal within 90 days of accumulation.
3. Sodium hydroxide sludge (D002) from tanks that are cleaned out approximately once per year.

At the time of my inspection the plant had manifested two shipments of 1,1,1-Trichloroethane in August, 1982 and one shipment of sodium hydroxide sludge in July, 1982. Four drums of sodium cyanide were being prepared for shipment at the time of my visit, so a manifest for these should be available by now.

My inspection did not address PCB waste, but the plant environmental engineer stated that capacitors and transformers containing PCB-contaminated fluid are placed in drums and disposed of in a landfill in Alabama. These drums are stored in a locked cage in the storage building mentioned before.

TO: Seth Phillips

Page 2

RE: RCRA Inspection at Ford Sterling Axle Plant

I understand that a TSCA inspection will be conducted at the plant in the near future.

I have enclosed copies of analyses of storm pond oil, waste oil and lagoon sludges which have been determined to be non-hazardous and which are manifested as Act 136 wastes. The plant environmental engineer also stated that paint residue and paint sludge from the plant were analyzed in February, 1981 and determined to be non-hazardous.

Any questions concerning discharge of materials through the plant's NPDES outfall should be directed to Tim Jaski or Bill Stone.

AS:mh

#A-3567

STATE OF MICHIGAN



WILLIAM G. MILLIKEN, Governor

DEPARTMENT OF NATURAL RESOURCES

HOWARD A. TANNER, Director

2455 N. Williams Lake Road
Pontiac, Michigan 48054

September 29, 1982

NATURAL RESOURCES COMMISSION

JACOB A. ROEFER
J. LAITALA
GILARY F. SNELL
PAUL H. WENDLER
HARRY H. WHITELEY
JOAN L. WOLFE

Ford Motor Company
Sterling Axle Plant
39000 Mound Road
Sterling Heights, Michigan 48078

Attention: Mr. Jack Garavanta
Plant Engineering

Gentlemen:

On September 9, 1982 I conducted an investigation of your facility located at 39000 Mound Road in Sterling Heights, Michigan to evaluate compliance of that facility with requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) as amended.

As a result of that investigation, I have determined that your facility has no deficiencies in the requirements under RCRA.

Thank you for your cooperation during my visit.

Sincerely,

Andrea Stewart

Andrea Stewart
Resource Specialist
Air Quality Division

RECEIVED

OCT 01 1982

ACT 64

AS:mh

cc: Al Howard, OHWM ✓

#A-3567

Say yes to Michigan!



SEP 21 1982

Transmission and Chassis Division
Ford Motor Company

Sterling Plant
39000 Mound Road
Sterling Heights Michigan 48078

September 16, 1982

Andrea Stewart
Resources Specialist
MDNR - AQD
2455 N. Williams Lake Road
Pontiac, Michigan 48054

ECA ID# MID044255420

Subject: Ford Motor Company
Sterling Axle Plant

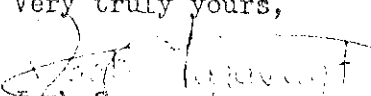
Dear Andrea:

As per your request, attached are copies of:

- o Storm Pond Oil Analysis
- o Waste Oil Analysis
- o N. E. and N. W. Lagoon Analyses

If there are any questions, do not hesitate to contact me
at (313) 977-5789.

Very truly yours,


Jack Garavanta
Environmental Engineer
Sterling Axle Plant

attachments

RECEIVED

OCT 01 1982

ACT 64



HYDRIC RESEARCH SERVICES
Water Management Division
Clow Corporation

408 Auburn Ave.
Pontiac, MI 480

313 334-1630
313 334-4747

July 23, 1981

Ford Motor Company
SSECO
Parklane Towers, Suite 6234
One Parklane Blvd.
Dearborn, MI 48126
Attn: Dr. J. Trolano

PN #61-460045. Sample received July 7, 1981.

Hydro number: 48900

Customer Identification: 107020235
Sterling Axle Plant
Storm Pond Oil

Arsenic, As, mg/kg	< 1
Barium, Ba, mg/kg	< 50
Cadmium, Cd, mg/kg	< 0.5
<u>Total Chromium, Cr, mg/kg</u>	<u>4.1</u>
<u>Lead, Pb, mg/kg</u>	<u>< 4.6</u>
Mercury, Hg, mg/kg	< 0.04
<u>Selenium, Se, mg/kg</u>	<u>< 1</u>
Silver, Ag, mg/kg	< 1
Copper, Cu, mg/kg	5.6
Zinc, Zn, mg/kg	21
Nickel, Ni, mg/kg	< 5
Flash Point °F	> 200
Total Solids, %	< 0.1%

The sample contained less than 0.5% solids; therefore, no leachate was necessary. The sample was centrifuged and any solids that may have been present were not included in the analysis.

Linda Deans
General Laboratory Manager



HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation

408 Auburn Avenue
Pontiac, MI 48058

313 334-1630
313 334-4747

Ford Motor Company
Sterling Axle Plant
39000 Mound Road
Sterling Heights, MI 48078
Attn: Mr. Jack Garavanta
61-460045

Date: 4-8-81

Sample received: 3-30-81

HYDRO NO: 46560
CUST. ID: Waste Oil Sample
3/26/81

Arsenic, As, mg/kg	< 0.2
Barium, Ba, mg/kg	< 16
Cadmium, Cd, mg/kg	< 0.3
Chromium, Cr, mg/kg	19
Chromium, Hex., Cr, mg/kg	< 0.05
Lead, Pb, mg/kg	16
Mercury, Hg, mg/kg	< 0.02
Selenium, Se, mg/kg	< 0.2
Silver, Ag, mg/kg	< 0.3
Copper, Cu, mg/kg	8.1
Nickel, Ni, mg/kg	29
Zinc, Zn, mg/kg	100
Solids, Total %	0.3

NOTE: Results reported on sample as received. Sample contained less than 0.5% solids, therefore no leachate was necessary.

Linda Carey
Linda Carey/Manager
Analytical Services

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Results of Analysis
for
Ford Motor Company

Job No. 10940-1080-1A

Lab Number	Sample Description	Lead (ppm)	Cadmium (ppm)	Barium (ppm)	Silver (ppm)	Chromium (ppm)	Arsenic (ppm)
184343	Sterling Axle East	<0.4	<0.02	21.0	<0.04	<0.2	<0.01
184344	Sterling Axle West	<0.4	<0.02	40.0	<0.04	<0.2	<0.01

Lab Number	Sample Description	Selenium (ppm)	Mercury (ppm)
184343	Sterling Axle East	<0.01	<0.01
184344	Sterling Axle West	<0.01	<0.01

Revised 10-17-80

#1058

RCRA Inspection Report

EPA Identification Number: M I D 0 4 4 2 5 5 4 2 0

Installation Name: FORD MOTOR CO. STERLING AXLE PLANT

Location Address: 39000 MOUND ROAD

City: STERLING HEIGHTS

State: MICHIGAN

Date of inspection: 9/09/82

Time of inspection (from) 9:00 A.M. (to) 1:30 P.M.

Person(s) interviewed

Title

Telephone

JACK GARAVANTA

ENVIRON. ENG.

(313) 977-5789

Inspector(s)

Agency/Title

Telephone

ANDREA STEWART

MDNR - AIR QUALITY

(313) 666-2700

Installation Activity (mark only one box)

Inspection Form(s)

☐ Treatment/Storage/Disposal per 40 CFR 265.1 and/or
Generation and/or Transportation

A

☐ Treatment/Storage/Disposal (no generation or Transportation)

A

☐ Generation and Transportation

B, C

☒ Generation only

B

☐ Transportation only

C

RECEIVED

OCT 01 1982

ACT 64

INSPECTION FORM B

Section A: Scope of inspection

Standards for generators of HAZARDOUS WASTE subject to 40 CFR 262.10

Section B: MANIFEST REQUIREMENTS (Part 262, Subpart B)

	Yes	No	NI*	Remarks
(1) Does the generator have copies of the manifest available for review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(2) Examine manifests for shipments in past 6 months. Indicate approximate number of manifested shipments during that period. <u>3</u>				
(3) Do the manifest forms examined contain the following information? (If possible, make copies of, or record information from, manifests that do not contain the critical elements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
a. Manifest document number?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Name, mailing address, telephone number, and EPA ID number of generator?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Name and EPA ID number of transporter(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Name, Address, and EPA ID Number of designated permitted facility and alternate facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. The description of the waste(s) (DOT shipping name, DOT hazard class, DOT identification number)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. The total quantity of waste(s) and the type and number of containers loaded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g. Required certification?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
h. Required signatures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(4) Reportable exceptions				
a. For manifests examined in (2) (except for shipments within the last 35 days), enter the number of manifests for which the generator has <u>NOT</u> received a signed copy from the designated facility within 35 days of the date of shipment. <u> </u>				
b. For manifests indicated in (4a), enter the number for which the generator has submitted exception reports (40 CFR 262.42) to the Regional Administrator. <u> </u>				

Section C - PRE-TRANSPORT REQUIREMENTS
(40 CFR Part 262 Subpart C)

Yes No NI Remarks

(1) Is waste packaged in accordance with DOT regulations? (Required prior to movement of hazardous waste off-site)

☒ ☐ ☐ _____

(2) Are waste packages marked and labeled in accordance with DOT regulations concerning hazardous waste materials? (Required prior to movement of hazardous waste off-site)

☒ ☐ ☐ _____

(3) If required, are placards available to transporter?

☒ ☐ ☐ _____

** (4) Pre-shipment Accumulation:

** applies only to GENERATORS that store hazardous waste on-site for 90 days or less without a permit. These items do not apply to generators whose waste is immediately transported off-site.

a. Is hazardous waste accumulated in containers? If no, skip to b.

☒ ☐ ☐ _____

i. Is each container clearly marked with the date on which the period of accumulation began?

☒ ☐ ☐ _____

ii. Have more than 90 days elapsed since the dates marked?

☒ ☐ ☐ _____

iii. Is each container labeled or marked clearly with the words "Hazardous Wastes?"

☒ ☐ ☐ _____

iv. Are containers in good condition?

☒ ☐ ☐ _____

v. Are containers compatible with waste in them?

☒ ☐ ☐ _____

vi. Are containers managed to prevent leaks?

☒ ☐ ☐ _____

vii. Are containers stored closed?

☒ ☐ ☐ _____

viii. Are containers inspected weekly for leaks and defects?

☒ ☐ ☐ _____

ix. Are ignitable and reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive).

☒ ☐ ☐ _____

REACTIVE - SPENT
CYANIDE SOLUTION
(FOII)

	Yes	No	NI	Remarks
x. Are incompatible wastes stored in separate containers? (If not, the provisions of 40 CFR 265.17(b) apply.)	✓			
xi. Are containers of incompatible waste separated or protected from each other by physical barriers or sufficient distance?	✓			
b. Is hazardous waste accumulated in tanks? If no, skip to c.	✓			
i. Is each tank labeled or marked clearly with the words "Hazardous Wastes"?	✓			
ii. Are tanks used to store only those wastes which will not cause corrosion, leakage or premature failure of the tank?	✓			
iii. Do uncovered tanks have at least 60 cm (2 feet) of freeboard, or dikes or other containment structures?			✓	TANK IS COVERED
iv. Do continuous feed systems have a waste-feed cutoff?			✓	NOT CONTINUOUS FEED SYSTEM
v. Are waste analyses done before the tanks are used to store a substantially different waste than before?			✓	TANK IS RENTED FOR PURPOSE OF STORING FOOD ONLY
vi. Are required daily and weekly inspections done?	✓			
vii. Are reactive and ignitable wastes in tanks protected or rendered non-reactive or nonignitable? Indicate if waste is ignitable or reactive. (If waste is rendered non-reactive or nonignitable, see treatment requirements.)			✓	
viii. Are incompatible wastes stored in separate tanks? (If not, the provisions of 40 CFR §265.17(b) apply.)			✓	NO INCOMPATIBLE WASTES

Yes No NI Remarks

- ix. Has the owner or operator observed the National Fire Protection Association's buffer zone requirements for tanks containing ignitable or reactive wastes?

Tank capacity: _____ gallons

Tank diameter: _____ feet

Distance of tank from property line _____ feet

(see tables 2-1 through 2-6 of NFPA's "Flammable and Combustible Liquids Code - 1977" to determine compliance.)

- c. Is hazardous waste accumulated in other than tanks or containers?

_____ ✓ _____

- d. Personnel training.

Do personnel training records include:

- i. Job Titles? _____ ✓ _____
ii. Job Descriptions? _____ ✓ _____
iii. Description of training? _____ ✓ _____
iv. Records of training? _____ ✓ _____
v. Did personnel receive the required training by 5-19-81? _____ ✓ _____
vi. Do new personnel receive required training within six months? _____ ✓ _____
vii. Do personnel training records indicate that personnel have taken part in an annual review of initial training? _____ ✓ _____

- e. Preparedness and Prevention

- i. Maintenance and Operation of Facility:

Is there any evidence of fire, explosion, or release of hazardous waste or hazardous waste constituent? _____ ✓ _____

ii. If required, does this facility have the following equipment:

Internal communications or alarm systems?	___	___	✓	<u>NOT REQUIRED</u>
Telephone or 2-way Radios at the scene of operations?	✓	___	___	___
Portable fire extinguishers, fire control, spill control equipment and decontamination equipment?	✓	___	___	___

Indicate the volume of water and/or foam available for fire control:

2 DRY CHEMICAL FIRE EXTINGUISHERS; PLANT FIRE TRUCK;
DRY PIPE SPRINKLER SYSTEM

iii. Testing and Maintenance of Emergency Equipment:

Has the owner or operator established testing and maintenance procedures for emergency equipment?	✓	___	___	___
Is emergency equipment maintained in operable condition?	✓	___	___	___
iv. Has owner/operator provided immediate access to internal alarms (if needed)?	___	___	✓	<u>NOT NEEDED</u>
v. Is there adequate aisle space for unobstructed movement?	✓	___	___	___
vi. Has the owner or operator attempted to make arrangements with local authorities in case of an emergency at the facility?	✓	___	___	___

f. Contingency Plan and Emergency Procedures

Does the contingency plan contain the following information:

i. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control and Countermeasures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.)	✓	___	___	___
---	---	-----	-----	-----

	Yes	No	NI	Remarks
ii. Arrangements agreed to by local police departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services, pursuant to §265.37?	✓	—	—	—
iii. Names, addresses, and phone numbers (Office and Home) of all persons qualified to act as emergency coordinator.	✓	—	—	—
iv. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list, and a brief outline of its capabilities?	✓	—	—	—
v. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes and alternate evacuation routes?)	—	—	✓	NOT NECESSARY
vi. Are copies of the Contingency Plan available at site and local emergency organizations?	✓	—	—	—
vii. Is the facility emergency coordinator identified?	✓	—	—	JACK GARAVANTI
viii. Is coordinator familiar with all aspects of site operation and emergency procedures?	✓	—	—	—
ix. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?	✓	—	—	—
x. If an emergency situation has occurred at this facility, has the emergency coordinator followed the emergency procedures listed in 265.56?	—	—	✓	NO EMERGENCY SITUATION HAS OCCURRED

Section D: RECORDKEEPING AND REPORTING (Part 262, Subpart D)

Yes No NI Remarks

- (1) Are all test results and analyses needed for hazardous waste determinations retained for at least three years?

☒ _____

Section E: INTERNATIONAL SHIPMENTS (Part 262 Subpart E)

- (1) Has the installation imported or exported hazardous waste? If "no", skip a and b.

_____ ☒ _____

- a. Exporting Hazardous Waste, has a generator:

- i. Notified the Administrator in writing?

- ii. Obtained the signature of the foreign consignee confirming delivery of the waste(s) in the foreign country?

- iii. Met the Manifest requirements?

- b. Importing Hazardous Waste, has the generator met the manifest requirements?

RECEIVED

AUG 25 1982

QUALITY DIV

August 20, 1982

TO: Al Howard, Chief, Office of Hazardous Waste Management
FROM: Seth Phillips, Office of Hazardous Waste Management
SUBJECT: Waste Handling Practices at Ford Sterling Axle Plant

I have reviewed the attached EPA Inspection Report on the above mentioned facility at Chuck's request, as well as other pertinent records. The available information raises many questions regarding management of potentially hazardous wastes at this facility relative to requirements of Act 64.

The EPA report focuses on two waste handling operations: storage and handling of PCB and PCB transformers; and the treatment and discharge of "oily" wastes and sludges. Insufficient information is present in the EPA report to determine if the materials involved are hazardous wastes. Further information is needed to determine if the oily wastes and sludges are hazardous or not and whether or not PCBs are actually handled on site. We also need to know if the PCBs are process wastes or unused commercial chemical or off-spec products. If these materials are found to be hazardous wastes, then there appear to be several potential violations of Act 64 in the management of these materials. These violations would include improper storage, treatment and disposal, and potential manifest violations. The oily materials are stored and settled in lagoons which may not meet standards and which may require licensing. There is also discharge from the lagoon and treatment system to the municipal treatment system without the required authorization form. No licenses have been applied for under Act 64 and, if these wastes are hazardous, none of the required records have been submitted.

The EPA report also indicates the potential for loss to the ground and for possible discharge of the oily materials through the facility's NPDES permitted outfall. This discharge is only for non-contact cooling water and site storm water. As such, no point source investigation report exists in the Water Quality files. If these wastes are hazardous, either discharge would appear to violate Act 64 if it contains these wastes.

Mr. Al Howard
August 20, 1982
Page 2

It is also possible, although not known at this time, that listed hazardous wastes may be discharged into either the municipal system or the NPDES permitted on-site system. This facility has submitted waste characterization forms for two wastes: 1,1,1-trichloroethane, used in degreasing, and waste sodium cyanide, from heat treating operations. However, errors in completing the form leave unclear just what waste is involved.

The trichloroethane waste was indicated as both F002 and U226, and shown as a notification waste. While U226 can be a notification waste, it appears that this waste should be F002, as it is a spent degreasing agent. F002 cannot be a notification waste. The waste characterization form indicates that this waste is disposed of off-site. A check of our manifest records shows no manifest for off-site shipment of this waste or any other hazardous waste. All manifests from this facility indicate shipment of oily wastes or treatment sludges, all as Act 136 wastes. Of course, based on their assumption that the materials are notification wastes, they may not be manifesting these shipments.

The sodium cyanide waste is shown as P106, but is waste from heat treating. The P106 waste is indicated as a notification waste also. It would appear that this waste should be shown as either F010 or F011. No F waste can be a notification waste. However, the form also indicates generation of only 44 Kg per month, which would qualify it as a small quantity exempted waste as an F waste, though not as a P waste. The waste characterization also shows this waste as being disposed of off-site, though I can find no manifest for it either. Since it may be exempted from management as either a notification waste or a small quantity waste, no manifest may be required.

It is also possible that both of these wastes may be discharged into a storm water system, the oily waste system, or directly into the municipal system. Further information is needed regarding the fate of these waste streams to properly determine if a violation exists. Additionally, new waste characterizations should be submitted.

The PCB wastes stored at this facility appear to be process wastes and would qualify as notification wastes. However, no waste characterization showing PCB as a notification waste has been submitted. If any of these materials have been stored for over a year, or shipped off-site, one of which events is likely, a violation of Act 64 may have occurred since no manifest has been found for PCB from this site and no Act 64 licenses have been applied for or received for storage. Since the facility has a valid NPDES permit, if a waste characterization were submitted for PCB as a notification waste, there would be no Act 64 violation, although violations of other statutes are possible.


Mr. Al Howard
August 20, 1982
Page 3

The EPA report and the Water Quality Division files indicate an old complaint from a Ford employee regarding the pouring of liquids from drums marked PCB into drains. I have as yet been unable to find any follow-up information to this complaint. However, if the notification waste situation were resolved, such activity would not constitute a violation of Act 64 so long as the drain went to a properly permitted discharge.

I have spoken to the field staff responsible for conducting the RCRA generator inspection for this facility, which will be conducted after receipt of this memo and the attached material with an eye toward obtaining some of the needed information. I suggest we not take any action until after we have the conclusions from that inspection so that we can better determine the nature of the activities at this facility.

pd

Attachment

cc:  ^{MR}, Water Quality Division, District #3
Tim Jaske, Water Quality Division, District #1
Chuck Riley

March 7, 1977

TO: Files

FROM: C. Bek *CB*

SUBJECT: Ford Motor Company, Sterling Axle Plant, Sterling Heights

On the morning of March 4, 1977, I received a telephone call from Mr. Sapp of Macomb Daily regarding alleged discharge of PCB from the above named plant to a municipal sanitary sewer. According to Mr. Sapp, an employee at the Sterling Axle Plant observed a discharge of approximately 200 gallons of capacitor fluid into a sewer. This informant claims that the capacitors are labeled "PCB" and that they are dumped regularly into a sewer. I asked for the name of this informant, but Mr. Sapp declined to give it to me.

I thanked Mr. Sapp for the above information and told him that if we are to do a good follow up job on this type of complaint, we must talk to the informant and obtain sufficient information on which to base our follow up action.

During the afternoon of March 4, 1977, Mr. Lewis Dutton (313-756-7820), a pipe fitter at the Sterling Axle Plant called me. Mr. Dutton tells me there are nine capacitors within Department 13 and routinely PCB fluid is being discharged into a scanner pit and the scanner pit overflow goes into a sewer. He expressed a real concern because the PCB is already in his drinking water, bath water, etc.

The subject incident was referred to Mr. Schrameck, District 1, for his review and action.

clp

cc: J. Bohunsky
R. Schrameck
R. Powers

*Church,
Please review for
out of compliance.*
RECEIVED
JUL 20 1982
WQ. COMPLIANCE



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF.

5WQC-13

JUL 15 1982

Mr. Frank Baldwin, Chief
Compliance Section
Michigan Department of Natural Resources
P.O. Box 30028
Lansing, Michigan 48909

Dear Mr. Baldwin:

Enclosed is an SPCC inspection of Ford Motor Company-Sterling
Axle Plant, Sterling Heights, Michigan, conducted by the U.S. EPA
Eastern District Office on June 3, 1982.

If you have any questions regarding this inspection, please
contact Frances Brunet at (312) 886-6707.

Very truly yours,

Arnold E. Leder
Arnold E. Leder, Chief
Compliance Tracking Unit
Water Quality Branch

Enclosure

X.C. *Roy Schramm*
Ron Waepbreant
Al Howard

RECEIVED
JUL 30 1982
ACT 64

DATE: June 29, 1982

SUBJECT: Ford Motor Company - Sterling Axle Plant, Sterling Heights, Michigan

FROM: A.R. Winkhofer, Director, EDO *AW*TO: William Miner, Supervisor, Technical, Permits, and Compliance Section, 5HW
Karl Bremer, Supervisor, Toxic Substances Section, 5HT
Ronald Mustard, Chief, Compliance Section, 5WQC

On June 3, 1982 Ross Powers of my staff conducted an SPCC inspection of the subject facility. While at the facility, observations incidental to the inspection were made (see attached June 15, 1982 memo) indicating possible non compliance with RCRA, TSCA and NPDES regulations. These observations are forwarded to your attention for appropriate follow-up action.

Incidentally, the facility was the subject of a previous referral by this office for follow-up action dated September 3, 1976 (copy attached).

The Environmental Services Division will initiate appropriate action pursuant to the findings from the SPCC inspection.

MDNR Proposed Permit Modification - NPDES #MI 0003417
Ford Motor Company, Sterling Axle Plant,
Sterling Heights, MI

SEP 3 1976

A. R. Winklhofer, Director
Michigan-Ohio District Office

Chief, Permits Branch

THRU: Deputy Director, S & A Division, 5/S

Our Grosse Ile office recently received a citizen's complaint regarding the possible discharge of PCB's to the environment at the subject facility.

The complainant, a worker at the facility, indicated that capacitors used on the high frequency heat treating system for the axles are discarded with scrap metal and occasionally are punctured. The capacitors, about 20" x 14" x 4", contain a PCB caution label. The scrap metal "chip" containers are stored both in the facility and outside. A specific location cited was the M-15 maintenance crib. The complainants also indicated that plant supervision was notified of the matter, but apparently nothing was done to correct the problem. The worker was also concerned that the PCB could enter the water supply and cooling water if a capacitor "exploded" in service.

We do not have any comments regarding the modification of the permit which is to include noncontact cooling water, condenser water and blow-down from boiler and cooling tower. We do note that the original permit was primarily for storm water runoff from various areas, which received treatment in a detention pond. We are concerned that this discharge also includes runoff from waste storage areas such as the scrap metal or "chip" storage, and may therefore include PCB's from time to time.

The permit should specifically prohibit the discharge of PCB's unless the Permittee and the issuing agency certify the PCB handling procedures at the facility preclude such discharge.

A copy of this memo is being provided to G. Pratt, PCB Coordinator, Region V.

Please contact Robert N. Buckley at Grosse Ile should you have any questions regarding the above.

CC: G. Pratt, PCB Coordinator
Reading File MODO

RMBuckley/to - 9/1/76

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: June 15, 1982

SUBJECT: Inspection of FOMOCO Sterling Axle Plant, Sterling Heights, MI, June 3, 1982

FROM: *Ross E. Powers*
Ross E. Powers, Oil & Hazardous Materials Coordinator, EDO, 5/SEGI

TO: A. R. Winkelhofer, Director, Eastern District Office, 5/SEDO

This facility was visited by the writer to complete an inspection of the SPCC Plan that was partly checked during a May 18, 1982, TAT inspection (attached).

The enormous amount of oil and oily waste handling activities at the plant lends itself to spillage and accidental losses to the property. No oil losses to properties off the facility were observed, but the use of the facility drainage ditches and open lagoons for oily waste collection, makes one wonder if these materials will eventually affect the outside environs. The plant housekeeping was very sloppy and may be inconsistent with most plant safety practices.

The Sterling Axle Plant has two large oily waste lagoons on the north side of the plant. In the past, these pits were used to dispose of oily sludges. The eastern-most lagoon has not been used in about 10 years and is filled with a thick crusty sludge. The western lagoon has been used up until 1979, and is still filled with oily liquids. Both lagoons have grass covered earth dikes. It is not known if they are lined. Another small oily sludge lagoon was constructed adjacent to the "storm water" pond to accept oily sludges from dredging operations. Oil that surfaces in this old pit, is allowed to overflow back into the "storm water" pond. The wastes in these lagoons could leach or escape through animal burrows and may act as a death trap for waterfowl.

The "storm water" pond is a 10 MG lagoon that receives 0.4 MGD of non-contact cooling water plus roof, yard and storm drainage from the entire site. It is discharged to Moore Drain by periodically pumping about 1.5 MG from a deep well pit at the south end of the lagoon. The pond banks are heavily oiled and permanent oil skimmers and booms are employed to recover the floatable oils. Insoluble oils and oily sludges are also discharged to the lagoon. Soluble oil emulsions are probably broken somewhat and diluted before discharge. The WWT Plant chemist said, "they turn on the pumps for about 10 minutes, draw a sample for oil and grease and if it is too high (>10 mg/l), stop the pumping and allow the pond to fill up more." The May 1982, MOR indicated an average oil and grease of 5 mg/l with a 9 mg/l maximum. It is hard to believe that such low levels of oil and grease are found in the discharge of this grossly oily lagoon.

The plant environmental engineer claims that he has not seen a MDNR water quality investigator in years, however, they do have frequent visits by MDNR air quality inspectors. It would seem prudent to check the validity of their NPDES reporting/sampling and operating procedures.

In the event of a large soluble oil spill to the storm pond, I was told that the pond would be pumped to their process water treatment plant for purification.

Soluble oils and floatable oils are allowed to drain freely into the storm water pond before any attempts are made to recover the oils. Track drainage ditches and stormsewers are used to collect and conduct the spilled wastes to the storm pond recovery units. Some of these conduits appear to be restricted in flow, allowing oils to remain on the ground for long periods or backwater into areas where oils were not spilled. This practice will result in the oil soaking into the ground. In the past, oily chips were loaded into gondola cars, which dripped oil into the ballast and drained to track ditches, which flowed into the storm pond. Despite the construction of special chip-car drains and drain procedures, oil from these R.R. cars was observed dripping into the ballast on a nearby siding. An attempt to keep this oil from entering the storm pond by raising manholes near areas where oily chips were handled, has only resulted in the oil flowing further away to other storm drains.

In tracing the flow path of one oil stream, the writer discovered a 20'x20' pit full of oil and lapping compound (a mineral oil/silicon carbonate compound). This material was being stored for later solidification with the surrounding dike material (power house fly ash), and disposal as a non-hazardous material. The EPA toxicity for soluble oils, mineral oils and other liquid wastes that were being dumped into the temporary lagoon for dilution by solidification was unknown. The hauler and deposition of the solidified oily wastes was not manifested and available to the writer. This appears to be an attempt to disguise a listed RCRA waste.

An inspection of the PCB waste storage area found that several drums were without lids. Two small transformers were left on the top of a drum instead of being secured inside and all of the barrels were painted yellow and labeled PCB. No PCB stickers were on the barrels. PCB monthly records and the dates the containers were placed in storage were not checked. The plant environmental engineer stated that PCB stickers were placed on the barrels when they were shipped for disposal on a semi-annual basis. The facility is not following TSCC labeling and recording procedures.

I believe that this facility may be in violation of RCRA, NPDES, TSCC and SPCC regulations, as well as MDNR's Part 5 rules, and warrants further investigation by specialists in those areas. Please forward these observations to related activities.

Attachments

1. NAME OF FACILITY

Ford (FOMOCO) Sterling Axle Plant

2. TYPE OF FACILITY

Manufacturing

3. FACILITY LOCATION

39000 Mound Road, Sterling Heights, Michigan 48708

4. NAME OF OWNER AND/OR OPERATOR RESPONSIBLE FOR FACILITY

Jack Garavanta, Environmental Engineer

5. TELEPHONE NUMBER
Area Code

(313) 977-5000

6. MAILING ADDRESS

39000 Mound Road, Sterling Heights, Michigan 48708

7. TYPES OF OIL STORED AND CAPACITY OF ABOVEGROUND AND BURIED STORAGE

See Appendix A

8. IS A CERTIFIED SPC PLAN AVAILABLE FOR INSPECTION? ☒ YES ☐ NO

9. DATE OF INSPECTION

May 18, 1982

10. NAME AND REGISTRATION NUMBER OF CERTIFYING ENGINEER ☐ NOT AVAILABLES.P. Pachla
Michigan # 577211. DATE SPC PLAN WAS
CERTIFIED ☐ NOT AVAILABLE

Revised - 6/1/81

12. IS SPC PLAN FULLY IMPLEMENTED? (Are the items called for in the Plan in the interest of spill prevention actually installed - if observable?)

☐ NOT APPLICABLE13. NAME OF WATER BODY THAT POTENTIAL SPILL COULD ENTER; OR IF UNNAMED TRIBUTARY, THEN FIRST NAMED WATERBODY
DOWNSTREAM (if known)

Moore drain to Clinton River to Lake St. Claire

14. COMMENTS (Include comments by owner/operator - write on back or attach extra sheets if needed)

15. SPC NO.

16. CASE NO.

5-8204-10

17. RIDES NO. ☐ NOT AVAILABLE

MI000-117

18. INSPECTOR (sign)

19. DATE

20. INSPECTOR (print)

Ella Dorancho

B. SPCC INSPECTION SUMMARY SHEET

PC NO.	CASE NO. 5-8204-10	DATE OF INSPECTION May 18 1982
NAME OF INSPECTOR (Signature) <i>[Signature]</i>		DATE OF DOCUMENTATION REPORT
NAME OF INSPECTOR (Print) Lisa Perenchio		HPDES NO. MT0003417

1. FACILITY		
COMPANY FOMOCO		TELEPHONE (313) 977-5000
ADDRESS 39000 Mound Road	STATE Michigan	ZIP CODE 48078
CITY Sterling Heights		
FACILITY NAME Sterling Axle Plant		
FACILITY LOCATION 39000 Mound Road, Sterling Heights, Michigan		
AGENT CORPORATION Ford Motor Company		
ADDRESS	STATE	ZIP CODE

WATER BODY PROTECTED Clinton River	
2. PURPOSE	
INITIATION: <input checked="" type="checkbox"/> Routine Surveillance <input type="checkbox"/> Coast Guard Information <input checked="" type="checkbox"/> Spill Report <input type="checkbox"/> Citizen Information <input type="checkbox"/> Other (specify): <input type="checkbox"/> Preparation <input type="checkbox"/> Plan Implementation <input type="checkbox"/> Follow-up <input type="checkbox"/> Plan Amendment	

3. INSPECTION	
INDIVIDUAL CONTACTED Jack Garavanta	TITLE Environmental Engineer
INDIVIDUAL CONTACTED	TITLE

NOTIFICATION

4. FINDINGS	5. ATTACHMENTS (None required if facility in apparent compliance)																																				
SOURCE IN APPARENT COMPLIANCE WITH SPCC REQUIREMENTS:																																					
<input type="checkbox"/> Yes <input type="checkbox"/> Have adequate plan <input type="checkbox"/> Not subject to regulations <input type="checkbox"/> Insufficient storage <input type="checkbox"/> No reasonable spill expectation <input type="checkbox"/> Plan fully implemented <input type="checkbox"/> New facility operational less than 6 months <input checked="" type="checkbox"/> No <input type="checkbox"/> No plan <input type="checkbox"/> Plan not properly certified <input type="checkbox"/> Plan does not have management approval <input type="checkbox"/> Plan not maintained at facility manned 8 hrs/day <input type="checkbox"/> Inadequate plan (detailed SPCC Plan review attached) <input type="checkbox"/> Plan not fully implemented <input type="checkbox"/> Plan not reviewed within 3 years <input type="checkbox"/> Other																																					
<table border="1"> <thead> <tr> <th></th> <th>NONE</th> <th>ATTACHED</th> <th>ALREADY ON FILE</th> </tr> </thead> <tbody> <tr> <td>*Detailed Observations</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Photographs</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Slides</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Map</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Field Drawing</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Comments</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Telephone Conversations</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*SPCC Plan</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>* (ALL REQUIRED IF FACILITY IS NOT IN APPARENT COMPLIANCE. If photos not permitted, check "None" and explain. Add "SPCC Plan" to List of Attachments when appropriate.)</p>			NONE	ATTACHED	ALREADY ON FILE	*Detailed Observations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*Photographs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slides	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Map	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*Field Drawing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*Comments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Telephone Conversations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*SPCC Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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*SPCC Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																		

C. DETAILED SPCC DOCUMENTATION		SEE INSTRUCTIONS ON PAGE 1
DATE OF INSPECTION May 18, 1982		
FACILITY DESCRIPTION		
TYPE OF BUSINESS/OPERATION Manufacturing FACILITY OIL STORAGE See Appendix A		
PREVENTION MEASURES PROVIDED All storm line discharge into a retention pond which is monitored and skimmed as needed. No dikes were present around any of the aboveground tanks.		
D. APPEARANCE OF FACILITY (housekeeping) Good		
E. PAST SPILL HISTORY None		

2. RECEIVING WATER (should a spill occur)

2a. NAME AND/OR DESCRIPTION

Clinton River

- ☒ Perennial ☐ Intermittent
☐ Water present at time of inspection
☐ Inspector traced discharge to receiving water
☐ Inspector traced apparent drainage path to receiving water
☒ Receiving water identified by company representative
☐ Receiving water identified from topo maps
☐ Receiving water identified by other means (specify):

2b. PROBABLE FLOW PATH TO RECEIVING WATER

Moore drain to the Clinton River to Lake St. Claire

2c. CLIMATIC INFORMATION FROM OWNER/OPERATOR

None

TAT personnel arrived at Ford Motor Company Plant to inspect the facility for an SPCC Plan. After reviewing the SPCC Plan TAT personnel were not allowed on site to inspect the facility unless they could show proper identification. Mr. Garavanta would not accept our identification cards. Mr. Garavanta requested that we return the following day at which time - if he secured permission from Ford Headquarters he would allow us to perform an on site inspection.

The following day we returned to the facility. Mr. Garavanta had obtained permission from Ford to allow us to continue our inspection. Inspection of facility showed a clear operation. No dikes were present around any aboveground tanks. According to Mr. Garavanta any discharge of oil would flow into storm drains which discharge into a retention pond. This was verified in their SPCC Plan. Mr. Garavanta revealed that on the facility were a number of tanks that stored coolant water with a 5% oil mixture. Mr. Garavanta was informed that these tanks should be included as part of the plan. Mr. Garavanta disputed this on the telephone and would not supply the data necessary to complete the inspection.

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

EXHIBIT 2

DA

June 1, 1981

POLLUTION INCIDENT PREVENTION PLANINSPECTION SHEETTANK DESCRIPTIONINSPECTION RESULTS AND COMMENTSTANK FARM

(1)	12,000 gal. lube oil	BG
(1)	12,000 gal. hydraulic oil	BG
(1)	12,000 gal. cutting oil	BG
(1)	20,000 gal. hydraulic oil	BG
(6)	10,000 gal. lube oil	AG
(1)	20,000 gal. soluble oil	BG
(3)	4,000 gal. soluble oil	BG

WASTE TREATMENT

(1)	15,000 gal. ferric chloride	AG
(1)	ferric chloride fill line	AG
(1)	50,000 gal. waste oil	AG
(1)	8,000 gal. waste oil	BG
(3)	120,000 gal. waste oil lagoons	AG
(2)	20,000 gal. waste oil	AG
(2)	100,000 gal. soluble oil treatment	AG
(2)	50,000 gal. (concrete) process wastewater	AG
(2)	120,000 gal. clarifiers	
→ (4)	Sewage treatment tanks	2AG, 2BG

MISCELLANEOUS

(1)	5,000 gal. diesel fuel oil	AG
	PCB Storage Crib - Salvage Building	
(1)	15,000 gal. gasoline	BG
(2)	2,000,000 gal. sludge settling ponds	
(1)	4,000 gal. waste oil	AG
(1)	5,000 gal. waste oil	AG
(1)	Storm water pond	
	Hazardous Waste Storage Area - Salvage Building	

NOTE: BG - BELOW GROUND
AG - ABOVE GROUND

INSPECTOR

DATE

APPENDIX A

1-12,000 gallon buried tank of lubricating oil
1-12,000 gallon buried tank of hydraulic oil
1-12,000 gallon buried tank of cutting oil
1-20,000 gallon buried tank of hydraulic oil
8-10,000 gallon aboveground tanks of lubricating oil, 2 of which contain synthetic coolants, not petroleum distillates
3-4,000 gallon buried tanks of soluble oil
1-20,000 gallon buried tank of soluble
1-50,000 gallon aboveground tank of waste oil
1-8,000 gallon buried tank of waste oil
3-120,000 gallon aboveground waste oil lagoons, one of which is not presently use-.
2-20,000 gallon aboveground tanks of waste oil
2-120,000 gallon aboveground oil clarifiers
2-120,000 gallon aboveground tanks of soluble oil
1-5,000 gallon aboveground tank of diesel fuel oil
1-15,000 gallon buried tank of gasoline
1-4,000 gallon aboveground tank of waste oil
1-5,000 gallon aboveground tank of waste oil
25,740 gallon of PCB oil in transformers, switch gear boxes and capacitors, 2,304 lbs.

plus undisclosed oil collection & recirculating tanks and waste oil tank lift tanks associated with production (inside) areas of plant.

(Millions of gallons involved)

Inventory of these tanks, too involved for facility.

4-5TP tanks not listed.

SECTION I: Plant Operation

A. Material Storage

There are eight major classes of potential polluting materials consumed or generated at the Sterling Axle Plant. They are stored as indicated below:

1. Lubricating, Hydraulic and Cutting Oil

One 12,000 gallon below ground tank for lubricating oil
One 12,000 gallon below ground tank for hydraulic oil
One 12,000 gallon below ground tank for cutting oil
One 20,000 gallon below ground tank for hydraulic oil
Six 10,000 gallon below ground tanks for lubricating oil

2. Soluble Oils

One 20,000 gallon below ground tank
Three 4,000 gallon below ground tanks

*3. Acid

One 15,000 gallon above ground tank for Ferric Chloride

4. Gasoline

One 15,000 gallon below ground tank

*5. Road Salt

One 50 ton pile above ground, 25 feet x 75 feet; on concrete slab and sheltered.

6. Waste Oil

One 4,000 gallon above ground tank
One 50,000 gallon above ground tank
One 8,000 gallon below ground tank
Two 20,000 gallon above ground tanks
One 5,000 gallon above ground tank
Three 120,000 gallon above ground lagoons

7. Sludge Beds

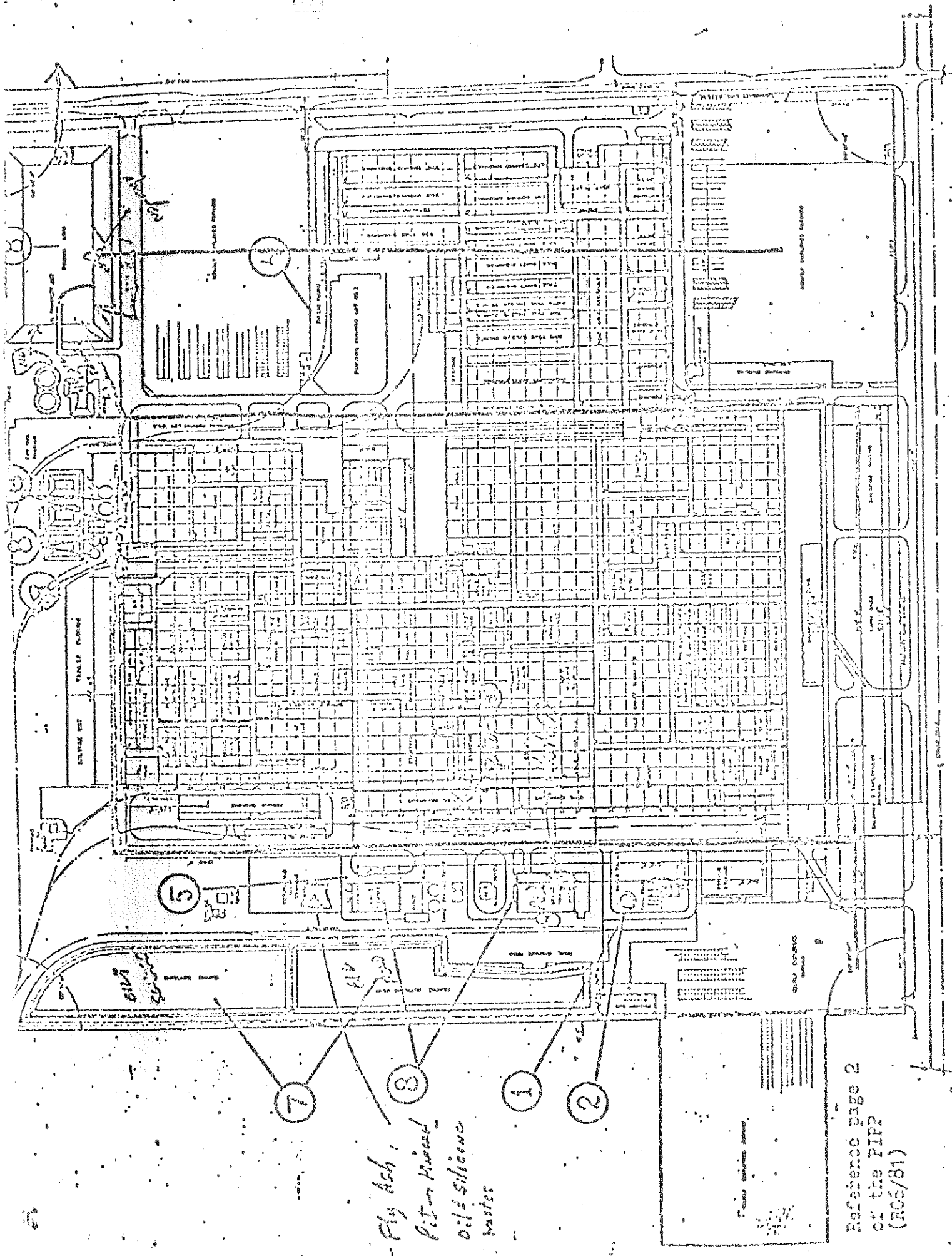
Two 2,000,000 gallon dykes above ground
One ~250,000 " " " " " "

8. Miscellaneous

Various production related above ground, portable tanks.
Two 100,000 gallon above ground soluble oil treatment tanks
One 5,000 gallon above ground diesel fuel oil tank
One storm water pond
One PCB storage crib - Salvage Building
One Hazardous Waste storage area - Salvage Building

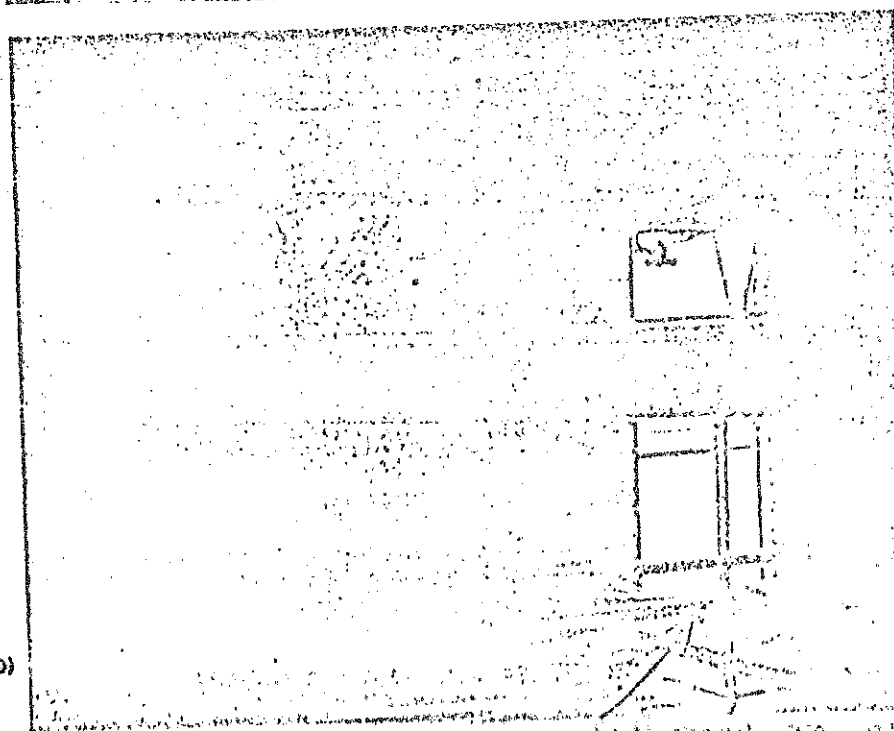
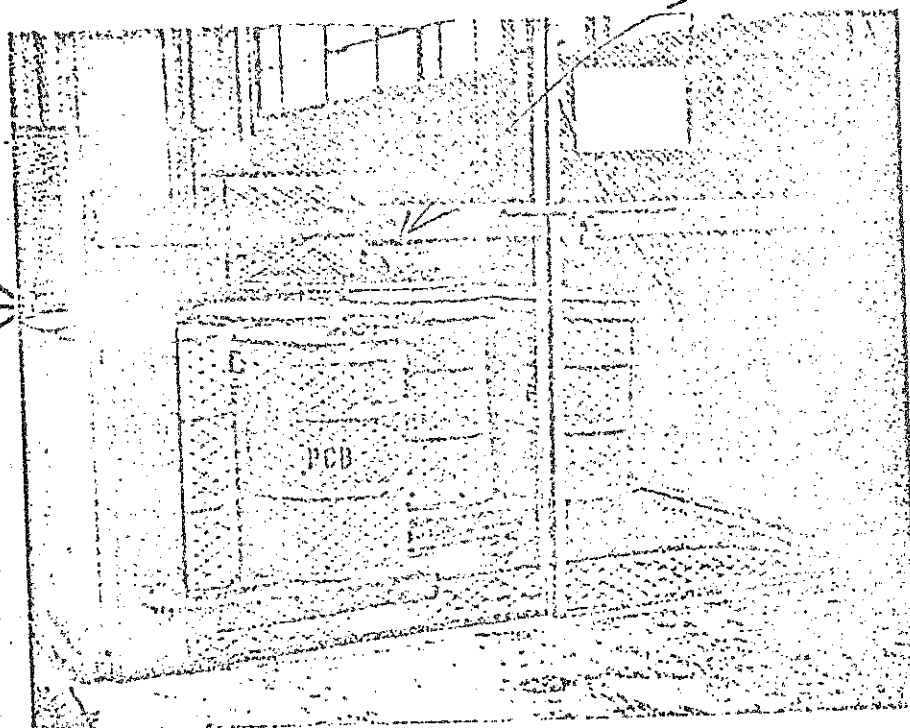
*Note: Non petroleum/non-oil based materials are marked with an asterisk.

Although included in the PIPP/SPCC Material Storage Inventory,

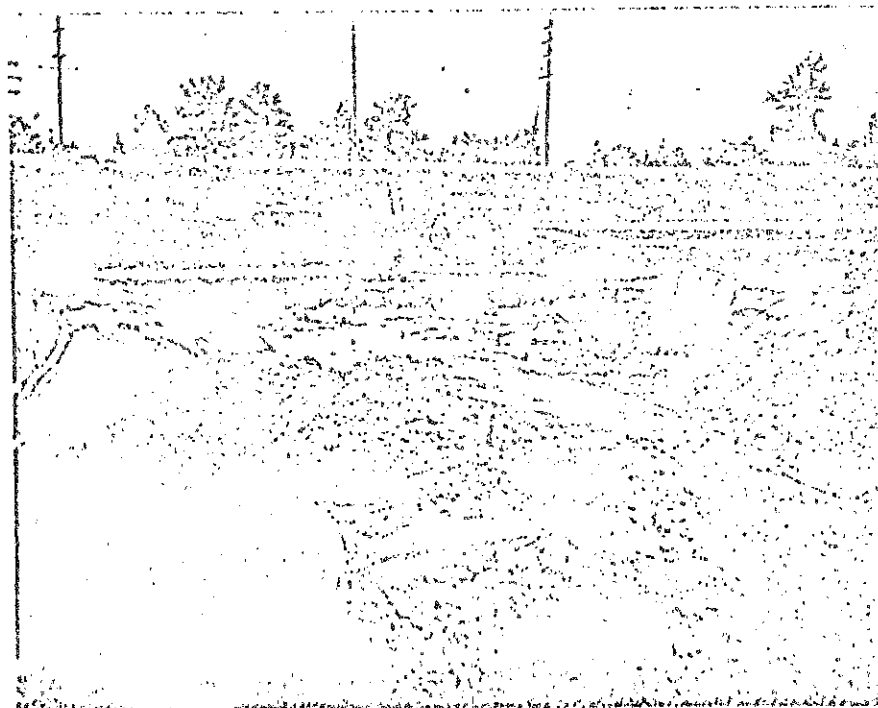
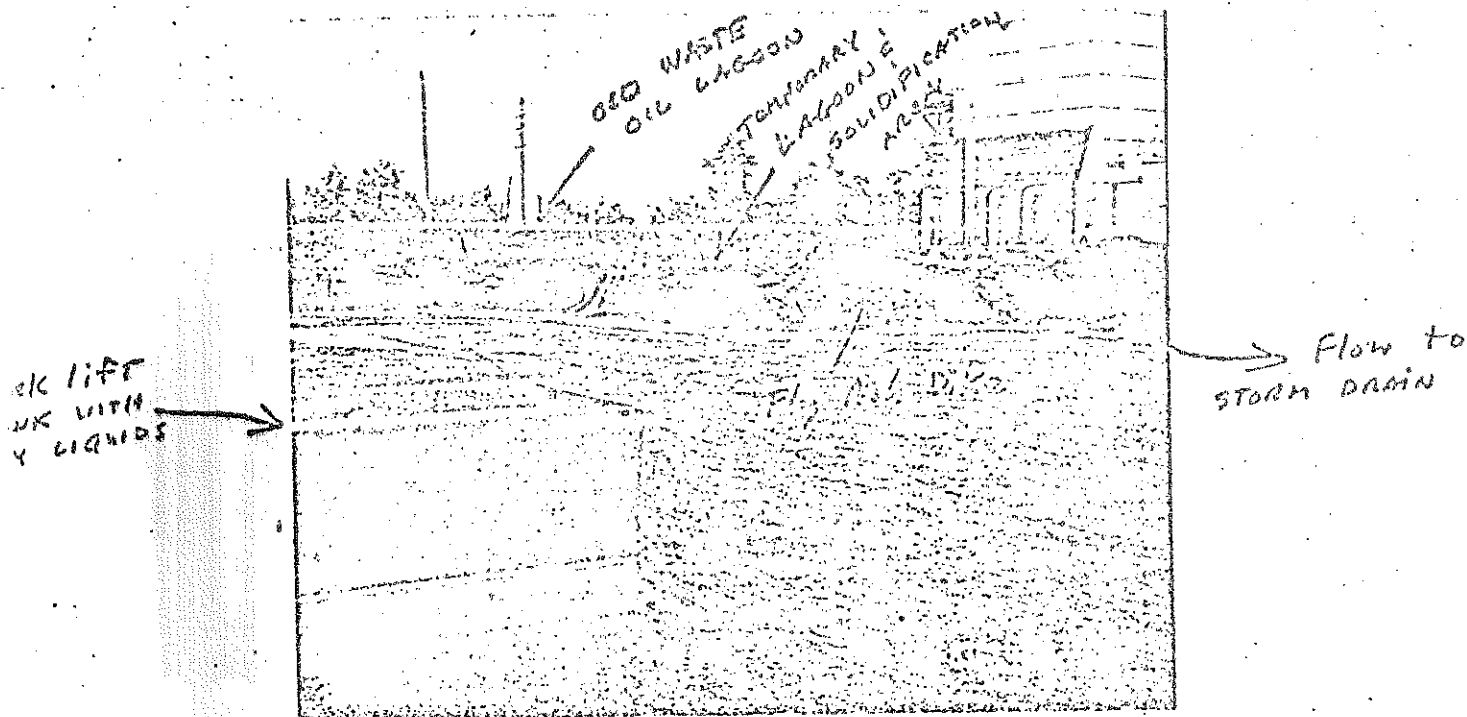


SUBJECT PCB storage area	FACILITY Ford Sterling Plt
PHOTOGRAPHER Ross Powers	WITNESSES
WITNESSES Jack Garavanta FORMCO	WITNESSES
DATE/TIME/DIRECTION 6/3/82 E	CAMERA/FILM/ATTACHMENTS CANON 110 / Flash / Kodachrome
SUBJECT Sol. Oil Piping / Open Door	FACILITY Ford Sterling Plt
PHOTOGRAPHER Ross Powers	WITNESSES
WITNESSES Jack Garavanta FORMCO	WITNESSES
DATE/TIME/DIRECTION 6/3/82	CAMERA/FILM/ATTACHMENTS CANON 110 / Flash / Kodachrome II

ON
DRUM
to shovel &
solid wastes



SUBJECT Fly Ash Lagoon & Port 10 Tank of Wastes	FACILITY FOROCO, Sterling Hts
PHOTOGRAPHER Bob Blum	WITNESSES
WITNESSES Jack Garbanta	WITNESSES
DATE/TIME/DIRECTION 6/3/82 NNE	CAMERA/FILM/ATTACHMENTS Cannon 110 / Kodacolor II
SUBJECT Fly Ash diked area with liquid wastes	FACILITY FOROCO, Sterling Hts.
PHOTOGRAPHER Bob Blum	WITNESSES
WITNESSES Jack Garbanta	WITNESSES
DATE/TIME/DIRECTION 6/3/82 NNE	CAMERA/FILM/ATTACHMENTS Cannon 110 / Kodacolor II



PART 5. SPILLAGE OF OIL AND POLLUTING MATERIALS

R 323.1151. Definitions A to G.

Rule 151. As used in this part:

(a) "Boom" means a floating containment device which may be rapidly positioned around an oil spill to prevent the movement or spread of such oil to adjacent water areas.

(b) "Oil" means oil of any kind or in any form, including but not limited to petroleum, gasoline, fuel oil, grease, sludge, oil refuse and oil mixed with waste.

(c) "Oil spill clean-up cooperative" means an organization created by contractual agreement among persons engaged in onloading and offloading of oil and other persons, including governmental units, which provide and utilize booms and associated equipment to prevent the movement or spread of oil on the waters of this state in case of spillage thereof.

(d) "Oil storage facility" means a temporary or permanent land-based industry, plant, establishment, firm or other facility, except an oil field petroleum or brine storage facility and a recreational marina, in situated that oil could directly or indirectly reach the surface or ground waters of this state, including but not limited to a facility which discharges through a sewer system, and which receives, processes, to a facility which discharges through a sewer system, and which receives, processes, manufactures, stores, or ships oil, and has on hand at any time, oil in excess of 40,000 gallons or any other land-based facility which has on hand less than 40,000 gallons of oil if the commission determines that such facility should be subject thereto.

(e) "On land facility" means a temporary or permanent land-based industry, plant, establishment, firm, storage site or other facility to prevent that loss of polluting materials could directly or indirectly reach the surface or ground waters of this state, including but not limited to a facility which discharges through a sewer system, and which receives, processes, manufactures, stores or ships polluting materials.

R 323.1152. Definitions P to V.

Rule 152. As used in this part:

(f) "Polluting material" means salt and any material listed on the critical materials register as prepared by the commission pursuant to Section 6b of the commission act, in solid or liquid form.

(g) "Salt" means sodium chloride and calcium chloride in solid or liquid form.

(h) "Use area" means any area within an oil storage facility or on-land facility which is used for handling, treating or processing oil or polluting materials.

(i) "Vessel" means a contrivance used or capable of being used for navigation upon water, whether or not capable of self-propulsion, including a foreign or domestic vessel engaged in commerce upon the waters of this state, and any other cargo-carrying vessel or barge which transports oil or polluting material.

R 323.1153. Vessels, booms for onloading and offloading oil.

Rule 153. Before oil is onloaded or offloaded through a conduit to or from a vessel on the waters of this state at an oil storage facility, boom and associated equipment shall be available at the site to be positioned immediately to prevent the movement or spread of any oil on the waters of this state in case of the spillage thereof. Booms and associated equipment may be considered to be available at the site if the oil storage facility is a member of an oil spill clean-up cooperative which has received approval by the commission. Adequate personnel shall be available at all times to position the booms in the event of such spillage.

R 323.1154. Oil storage facilities, booms for oil.

Rule 154. An oil storage facility, adjacent to a watercourse, which stores or in any way handles oil, shall have available adequate emergency boom system and associated equipment for containment of such oil in case of spillage thereof. Booms and associated equipment may be considered to be available if the oil storage facility is a member of an oil spill clean-up cooperative which has received approval by the commission. Immediately upon spillage, the booms shall be positioned by the oil storage facility or oil spill clean-up cooperative until all oil is removed, or in the judgment of the commission, the oil no longer poses a threat to the waters of this state. Adequate personnel shall be available at all times to position the booms in the event of spillage.

R 323.1155. Oil storage and on-land facilities, surveillance.

Rule 155. (1) Upon any onloading or off-loading of oil through a conduit to or from an oil storage facility, vessel, or other means of transport, adequate surveillance of the loading operation shall be maintained by the oil storage facility until all such operations are completed, so that any oil spillage can be immediately detected and procedure implemented to prevent its reaching the waters of this state.

(2) Oil storage and on-land facilities shall maintain adequate surveillance of all manufacturing processes, treatment systems, storage areas and other such areas so that oil spillage or polluting material loss therefrom can be immediately detected and procedures implemented to prevent its reaching the waters of this state.

(3) Any person employed by an oil storage or on-land facility for such surveillance shall be knowledgeable in operations and procedure necessary to prevent oil or polluting material from reaching the waters of this state.

R 323.1156. Oil storage and use areas, emergency containment structures.

Rule 156. A storage or use area of an oil storage facility shall be diked, curbed or otherwise structurally enclosed so as to be able to contain a volumetric capacity which is not less than the greatest amount of liquid that can be released from the largest tank within the diked area, assuming a full tank, unless a lesser containment area or alternate control measures are approved by the commission or its designated representative. The capacity of the diked area enclosing more than one tank shall be calculated by deducting therefrom the volume of the tanks other than the largest tank below the height of the dike. The area shall be so constructed that no oil can escape therefrom by gravity through sewers, drains or otherwise directly or indirectly into any sewer system or to the surface or ground waters of this state unless otherwise approved by the commission or its designated representative.

R 323.1157. Salt storage areas, emergency containment structures.

Rule 157. (1) Salt in liquid form stored at an on-land facility shall be diked, curbed or otherwise structurally enclosed so as to be able to contain a volumetric capacity which is not less than the greatest amount of liquid that can be released from the largest tank within the diked area, assuming a full tank, unless a lesser containment area or alternate control measures are approved by the commission or its designated representative. The capacity of the diked area enclosing more than one tank shall be calculated by deducting therefrom the volume of the tanks other than the largest tank below the height of the dike. The area shall be so constructed that no salt can escape therefrom by gravity through sewers, drains or otherwise directly or indirectly into any sewer system or to the surface or ground waters of this state.

(2) Salt in solid form stored for more than 15 days at an on-land facility shall be enclosed, covered or otherwise protected to prevent runoff, seepage or leakage onto or into the surface or ground waters of this state. Salt shall be stored not less than 50 feet from the shore or bank of any lake or stream unless otherwise required or approved by the commission.

R 323.1158. Polluting material storage and use areas, emergency containment structures.

Rule 158. (1) A storage or use area of an on-land facility for polluting material, except salt, in a liquid form shall be diked, curbed or otherwise structurally enclosed so as to be able to contain not less than 100 percent of the liquid polluting material stored or used unless a lesser containment area or alternate control measures are approved by the commission or its designated representative. The area shall be so constructed that no liquid polluting material can escape therefrom by gravity through building sewers, drains, or otherwise directly or indirectly into any sewer system or to the surface or ground waters of this state, unless otherwise approved by the commission or its designated representative.

(2) Polluting material, except salt, in solid form stored at an on-land facility shall be located in security areas designed to prevent the loss of such materials to any sewer system or to the surface or ground waters of this state.

R 323.1159. Exceptions.

Rule 159. (1) The discharge of solutions containing limited concentrations of oil, salt or polluting materials to the waters of this state or to sanitary sewer systems as specified in permits or Orders of Determination or Final Orders of Determination made by the commission in accordance with the provisions of the commission act, or as permitted by a local ordinance which has the concurrence of the State Department of Public Health, is not prohibited by Rules 155, 157 or 158.

(2) If the commission determines that an oil storage facility which has on hand less than 40,000 gallons of oil may be a hazard to the surface or ground waters of this state, such facility may be subjected to these rules by a permit or Order of Determination of the Commission.

R 323.1162. Pollution incident prevention plan.

Rule 162. (1) The owner, operator or manager of an oil storage or on-land facility shall file with the commission within 120 days after the effective date of these rules, or 30 days before the date of first use in case of new construction, a pollution incident prevention plan setting forth:

(a) The procedures by which such person proposes to prevent pollution of the waters of this state from storage and use areas, manufacturing processes, treatment systems, and shipping of oil and materials.

(b) The emergency clean-up procedures to be used in case of a spill, discharge, seepage, runoff or leakage of oil or polluting material into the waters of this state.

(c) The type of surveillance employed by such person.

(d) The method by which inventories are made of oil and polluting materials from the time the oil or polluting material is received or manufactured until such time it is treated and discharged or shipped out by the oil storage or on-land facility.

(2) If the commission determines that a pollution incident prevention plan prepared pursuant to subtitle (1) is incomplete or inadequate, it may return such plan to the owner, operator or manager of an oil storage or on-land facility with its findings and recommendations and request modification thereof. The owner, operator or manager of the oil storage or on-land facility shall modify and resubmit the pollution incident prevention plan to the commission within 30 days following the commission's request.

R 323.1163. Oil spill clean-up cooperative members, change in status.

Rule 163. (1) If an oil storage facility which is a member of an approved oil spill clean-up cooperative withdraws from such cooperative, it shall notify the commission of its intention to withdraw and shall file a revised pollution incident prevention plan pursuant to Rule 162 at least 30 days before the date of withdrawal.

(2) An oil storage facility shall not withdraw from the approved oil spill clean-up cooperative until the commission approves of the revised pollution incident prevention plan submitted pursuant to subtitle (1).

R 323.1164. Pollution incident report.

Rule 164. The owner, operator or manager of a vessel, oil storage facility, or an on-land facility which spills or permits to be spilled, oil, salt or polluting material shall immediately notify the commission and within 10 days after the spill shall file a report with the commission outlining the cause, its discovery and the procedures taken to remove the oil, salt or polluting material from the waters of this state. This rule does not supersede, modify or otherwise alter any other existing or future procedure, rule or statute pertaining to pollution of the waters of this state.

R 323.1168. Enforcement.

Rule 169. A person who violates any provision of this part is subject to the procedures and penalties prescribed in sections 7, 9 and 10 of the commission act.



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V

CASE FILE NO.: 88

SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN INSPECTION

A. INFORMATION RELATED TO FACILITY:

1. Name: Ford Sterling Plant
2. Address: 39000 Mound Road, Sterling Heights, MI 48078
3. Person in Charge: A.W. Alexandrowicz, Plant Manager Telephone: 977-5500
4. Facility manned 8 hrs/day? ☒ Yes ☐ No
5. Facility oil storage areas have secondary containment? ☐ Yes ☐ No
6. Brief description of facility: Transmission & Chassis Division

Company claims oil spill from this facility could not reasonably be expected to reach surface waters because of:

☒ N.A.

7. Would spill be expected to reach water course? ☒ Yes ☐ No
8. Describe flow path to waterway Storm Retention Pond to Moore Drain, East of Van Dyke at 17 Mile Road.
9. Distance from tankage to nearest flowing water 100 meters.

B. INFORMATION RELATED TO OWNER/OPERATOR:

1. Name: Ford Motor Company
2. Address: American Road, Dearborn, MI
3. Company Official: A.B.M. Houston Telephone: _____
4. Type of organization: ☐ Sole Proprietorship ☐ Contractor
☐ Partnership ☒ Corporation: Stata Inc.
5. Registered Agent: Unknown

C. INFORMATION RELATED TO SPCC PLAN:

1. Kind of oil(s) stored at facility: Sol. Oil, Hydraulic, Lube, Waste, Unleaded Gasoline, PCB, Swarth Material (lapping compound)
2. Aggregate storage capacity of facility:
 - a. Total above ground storage ? gallons. > 1,320 gal.
 - b. Buried, underground storage ? gallons. > 42,000 gal.
 - c. Largest above ground tank 100,000 gallons.
3. SPCC Plan available during regular working hours? ☒ Yes ☐ No
But plan at nearest Field Office? ☐ Yes ☐ No
State spill plan only: ☐
Claims plan developed, but location unknown. ☐

C. INFORMATION RELATED TO SPCC PLAN: (Continued)

4. Who did you ask for Plan: Name: Jack Garavanta
 Title: ENVIRONMENTAL ENGINEER, P.E. Ind. Dept.
 Date: 6/3/82 Time: 10:15
5. Plan certified by Licensed Engineer? ☒ Yes ☐ No
 Name: S.B. Pachla State Registration No. MI 5772
 Certification Date: 6/1/81 NOT SO STATED
 Attest to being in accordance with 112.7? ☐ Yes ☐ No
6. Facility Began Operation N.A. Owner reviewed plan on 6/1/81
 Has not reviewed plan by 1/10/78. ☐ Not reviewed by 1/10/81. ☐
7. Plan amended to reflect change in operation? ☒ Yes ☐ No
 If no - when were modifications in operations done? 10/5/81 letter for 6/1/81 plan
8. Facility has certified contingency type plan with a commitment of manpower
 & equipment on site? ☒ Yes ☐ No ☐ N.A.
9. Extension of file: ☐ Yes ☐ No ☐ Unknown
10. Plan properly implemented: ☐ Yes ☐ No.
 If No - list nonimplemented items:
Does not address soluble oil pits in production area, or piping and pumping areas.
Does not include old STP tanks on material storage list, but does include on inspection sheet. Does not list mineral oil in Fly Ash Pond (lapping compound)

D. OIL SPILL HISTORY:

1. SPCC Plan verification as result of spill: ☐ Yes ☒ No
 Case No.: _____
2. Prior spill over 1,000 gallons within year: ☐ Yes* ☒ No
3. Two minor spills within year: ☐ Yes* ☒ No
4. Extensive spill history? - attach list: ☐ Yes ☒ No 20 gal 7/9/79
- RESPONSIBLE OFFICIAL NOTIFIED OF 40 CFR 112.4 requirements: ☐ Yes ☐ No

Name: Jack Garavanta

Title: Environmental Engineer

Date: 6/3/82

SUMMARY OF SUSPECTED 40CFR112 VIOLATION(S):

- ☐ Not developed - 112.3 (a)(b) or (c)
- ☐ Not certified - 112.3 (d)
- ☒ Not implemented - 112.7
- ☐ Not available - 112.3 (a)
- ☐ Not reviewed - 112.5 (b)
- ☐ Not amended - 112.5(a)
- ☒ Not adequate - 112.3

Ross E. Powers

(Investigator) (Signature & Date)
 U.S. ENVIRONMENTAL PROTECTION AGENCY
 REGION V, YES
 HIGHLAND OFFICE
 9311 Groh Road
 Grosse Ile, MI 48136
 Telephone: (313) 676-6500

C. DETAILED SPCC DOCUMENTATION

SEE
INSTRUCTIONS
ON PAGE 8

FACILITY

Ford Motor Co., Sterling Plant

DATE OF INSPECTION

6/3/82

1. FACILITY DESCRIPTION

A. TYPE OF BUSINESS/OPERATION

Transmission & Chassis Division

B. FACILITY OIL STORAGE

Attachment "A", Listing

Plus - Coolant (soluble oil) central soluble oil systems in the manufacturing areas.

PREVENTION MEASURES PROVIDED

Gas powered pump to pump oily waste from holding pit to above-ground holding tank.

10,000,000 gal. storm water/oil skimming pond receives all storm water.

Sol. oil unloading procedures require attendance.

Security is provided 24 hr/day.

Containment equipment on hand near storm pond.

Clean-up equipment in Dept. 249.

Monthly inspections and inventories.

Training from SSECO.

APPEARANCE OF FACILITY (housekeeping)

Spillage of soluble oils apparent on N. & E. sides of plant.

Temporary fly ash pit has had spillage.

Oil stained grounds, drives, R.R. ballast and pits evident.

PAST SPILL HISTORY

20 gal. spill 7/9/79 to Moore Drain.

2. RECEIVING WATER (should a spill occur)

NAME AND/OR DESCRIPTION

Storm pond drains to Moore Drain tributary to: Clinton River Basin

- ☒ Perennial ☐ Intermittent
☐ Water present at time of inspection
☐ Inspector traced discharge to receiving water
☐ Inspector traced apparent drainage path to receiving water
☐ Receiving water identified by company representative
☐ Receiving water identified from topo maps
☐ Receiving water identified by other means (specify):

PROBABLE FLOW PATH TO RECEIVING WATER

Via ground water flow to neighboring drain through storm pond discharge.

C. CLIMATIC INFORMATION FROM OWNER/OPERATOR

Michigan; wet, cold, hot, dry.

RCRA LAND DISPOSAL RESTRICTIONS INSPECTION

I. General Information

Facility: _____

U.S. EPA ID No.: _____

Street: _____

City: _____

State: MI Zip: 48310

Telephone: _____

Inspection Date: 10/24/90

Time: _____ (am/pm)

Weather Conditions: PARTLY CLOUDY 50S BREEZY

Name	Agency/Title	Telephone
MIKE BASS		(313) 826-5501
CHARLIE E.		

Facility Representatives:

DAVID BRITTON ENVIRONMENTAL SPEC. (313) 826-5718KENNETH J. JACOBI JR. JR. SUPERV. PUMP ENGR. (313) 826-5501

	Generate	Transport	Treat	Store	Dispose
F001-F005 Solvents	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F020-F023 and F026-F028	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
California List*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First Third [40 CFR 268.10]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Second Third [40 CFR 268.11]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Third Third [40 CFR 268.12]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* See Appendix F

INSPECTION SUMMARY

Processes That Generate LDR Wastes:

LDR Waste Management:

Summary:

Signature: _____

RCRA LAND DISPOSAL RESTRICTIONS INSPECTION

II. WASTE IDENTIFICATION

A. Does the facility handle the following wastes?

1. F001 through F005 spent solvents

Yes ☐ No ☐ List

2. F020-F023 and F026-F028 dioxin-containing wastes

Yes ☐ No ☒ List

3. California List Wastes (See Appendix F)

Yes ☐ No ☒ List

4. First Third Wastes [40 CFR 268.10]

Yes ☐ No ☒ List

5. Second Third Wastes [40 CFR 268.11]

Yes ☐ No ☐ List

6. Third Third Wastes [40 CFR 268.12]

Yes ☒ No ☐ List

* Note: Effective 09/25/90, large quantity generators and FGDs are required to use the toxicity characteristic leaching procedure (TCLP) instead of the extraction procedure (EP) for determining the toxicity characteristic. Small quantity generators must comply with this new requirement by 03/29/91.

B. Waste Code Determination

1. Have all wastes been correctly identified for purposes of compliance with 40 CFR Part 268?

Yes ☒ No ☐

If no, list below:

Assigned Classification

Correct Classification

Comments: _____

GEN/TSD/TRANS

2. Have both the listed and characteristic waste code been assigned, where a listed waste exhibits a characteristic? [40 CFR 268.9(a)]

Yes ☐ No ☐ NA ☐

Comments _____

3. Has multi-source leachate been assigned the F039 waste code? * [40 CFR 261.31]

Yes ☐ No ☐ NA ☒

* Leachate derived exclusively from F020-23 and/or F026-F028 dioxin wastes retains the individual waste codes.

If yes, was single-source leachate combined to form multi-source leachate? [55 FR 22523]

Yes ☐ No ☐ N/A

Comments _____

C. Does the facility handle the following wastes (national capacity variances)?

1. F001-F005 contaminated soil and debris resulting from a CERCLA response action or a RCRA corrective action (expires - 11/08/90). [40 CFR 268.30(a)]

Yes ☐ No ☒

2. Dioxin contaminated soil and debris resulting from a CERCLA response action or a RCRA corrective action (expires - 11/08/90). [40 CFR 268.31(b)]

Yes ☐ No ☒

3. California list contaminated soil and debris resulting from a CERCLA response action or a RCRA corrective action (expires - 11/08/90). [40 CFR 268.32(d)(2)]

Yes ☐ No ☒

4. K048-K052 petroleum wastes (nonwastewaters; expires - 11/08/90). [40 CFR 268.35(b)]

Yes ☐ No ☐

5. K001-K004, K006-K009, K011-K013, K015-K017, K019-K021, K023-K025, K027-K029, K031-K033, K035-K037, K039-K041, K043-K045, K047-K049, K051-K053, K055-K057, K059-K061, K063-K065, K067-K069, K071-K073, K075-K077, K079-K081, K083-K085, K087-K089, K091-K093, K095-K097, K099-K101, K103-K105, K107-K109, K111-K113, K115-K117, K119-K121, K123-K125, K127-K129, K131-K133, K135-K137, K139-K141, K143-K145, K147-K149, K151-K153, K155-K157, K159-K161, K163-K165, K167-K169, K171-K173, K175-K177, K179-K181, K183-K185, K187-K189, K191-K193, K195-K197, K199-K201, K203-K205, K207-K209, K211-K213, K215-K217, K219-K221, K223-K225 (expires - 06/08/91). [40 CFR 268.34(d)]

Yes ☐ No ☐

- F
6. Soil and debris contaminated with wastes that had treatment standards set in the Third Third rule based on incineration, mercury retorting, vitrification, or wet air oxidation. See Appendix A; (expires - 05/08/92). [40 CFR 268.35(e)]
- Yes ☐ No ☐
7. The following nonwastewaters - F039, K031, K084, K101, K102, K106, P010, P011, P012, P036, P038, P065, P087, P092, U136, U151. (expires -05/08/92). [40 CFR 268.35(c)]
- Yes ☐ No ☒
8. The following wastes identified as hazardous based on a characteristic alone: D004 (nonwastewaters), D007 (lead materials stored before secondary smelting), D009 (nonwastewaters) (expires - 05/08/92). [40 CFR 268.35(c)]
- Yes ☐ No ☒
9. Inorganic solid debris as defined in 268.2(g); includes chromium refractory bricks carrying EPA Hazardous Waste Nos. K048-K052 (expires - 05/08/92). [40 CFR 268.35(c)]
- Yes ☐ No ☒
10. RCRA hazardous wastes that contain naturally occurring radioactive materials (expires - 05/08/92). [40 CFR 268.35(c)]
- Yes ☐ No ☒
11. Wastes listed in 40 CFR 268.10, 268.11, and 268.12 that are mixed radioactive/hazardous wastes (expires - 05/08/92). [40 CFR 268.35(d)]
- Yes ☐ No ☒

RCRA LAND DISPOSAL RESTRICTION INSPECTION

III. OTHER RDR REQUIREMENTS

A. Treatability Group - Treatment Standards Identification

1. F001-F005 Spent Solvent Wastes: Does the generator correctly determine the appropriate treatability group/treatment standard for each F-solvent?

Yes ☒ No ☐ NA ☐

If yes, list each waste code and check the correct treatability group.

Waste Code	Wastewater*	Nonwastewater
<u>F001</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>F003</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>F005</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

*less than 1% by weight total organic carbon (TOC), or less than 1% by weight total F001-F005 solvent constituents listed in 40 CFR 268.41, Table CCWE. [40 CFR 268.2(f)(1)]

Comments _____

2. F020-F023 and F026-F028 Dioxin Wastes: Does the generator correctly determine the appropriate treatability group/treatment standard for each dioxin waste?

Yes ☐ No ☐ NA ☒

If yes, list each waste code and check the correct treatability group.

Waste Code	Wastewater*	Nonwastewater
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>

Comments _____

*less than 1% by weight and less than 1% total suspended solids (TSS) by weight. [40 CFR 268.41, Table CCWE]

3. First, Second, and Third Third Wastes:

- a. Does the generator correctly determine the appropriate treatability group/treatment standard for each waste?

Waste Code	Wastewater*	Nonwastewater
_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>

* Less than 1% TOC by weight and less than 1% total suspended solids (TSS) with the following exceptions: K011, K013, and K014 - less than 5% by weight TOC and less than 1% by weight TSS; K103 and K104 - less than 4% by weight TOC and less than 1% by weight TSS. [40 CFR 268.2(f)(2)(3)]

Comments _____

- a. Do the assigned treatment standards for listed wastes cover constituents that may cause the waste to exhibit any characteristics? [40 CFR 268.9 (b)]

Yes ☒ No ☐ NA ☐

- c. Does the generator specify alternative treatment standards for lab packs?*

Yes ☐ No ☒ NA ☐

*Use of the alternative treatment standards is not required.

If yes, do lab packs only contain the following wastes? * [40 CFR 268.42.(c)]

☐ Organometallics: 40 Part 268, Appendix IV constituents
☐ Organics: 40 CFR Part 268, Appendix V constituents

*Unregulated wastes and hazardous wastes which meet treatment standards may be commingled in the appropriate Appendix IV and V lab pack. [55 FR 22629]

Does the generator specify alternative treatment standards for F039 multi-source leachate?*

Yes ☐ No ☐ NA ☒

*Use of the alternative treatment standards is required. [55 FR 22619]

4. California List Wastes: Has the generator correctly identified the treatability group and treatment standard/prohibition level for the following wastes? [55 FR 22675]

- a. Liquid hazardous wastes containing PCBs ≥ 50 ppm

Yes ☐ No ☐ NA ☒

If yes, check the appropriate treatability group:

☐ 50 to 500 ppm PCBs
☐ ≥ 500 ppm PCBs

- b. Listed organic hazardous wastes containing $\geq 1,000$ mg/l (liquids) or mg/kg (non-liquids) HOCs, which are not listed or characterized by the HOC content

Yes ☐ No ☐ NA ☒

☐ 10 to 100 mg/l (liquids) or 10,000 to 100,000 mg/kg (non-liquids) HOCs
☐ ≥ 100 mg/l (liquids) or $\geq 100,000$ mg/kg (non-liquids) HOCs, which are not listed or characterized by the HOC content

- Yes _____ No _____ NA _____

- Yes _____ No _____ NA 1

MA

Comments _____

- Yes No NA

Waste Code	Required Technology	Alternative Method	Approval

Comments _____

- Yes _____ No _____

Yes ☒ No ☐

Comments _____

- d. PFLT: Was PFLT used to determine if California List wastes were contained in liquid hazardous waste? [40 CFR 268.12]

Yes ___ No ___ NA ___

*PFLT = Paint Filter Liquids Test (Test Method 9095, EPA 813-B-90-001, Vol. 5A-34.6)

If yes, list the wastes for which PFLT was used and provide the date of last test, the frequency of testing, and note any problems. Attach test results.

3. Does the generator treat restricted wastes in 90-day tanks or containers regulated under 40 CFR 262.34?

Yes ___ No ☒ (If No, go to 4.)

Does the generator treat the wastes to meet appropriate treatment standards/prohibition levels?

Yes ___ No ___

If yes, has the generator prepared a waste analysis plan detailing the frequency of testing to be conducted? [40 CFR 268.7(a)(4)]

Yes ___ No ___ (If No, go to 4.)

Does the plan provide the following? [40 CFR 268.7(a)(4)(i)]

- ___ Detailed chemical and physical analysis of the restricted waste as justification for frequency of testing
- ___ Necessary information to treat the wastes in accordance with Part 268 requirements
- ___ Discussion of number of wastes treated, their variability, and variability of the treatment process

Has the plan been filed with the Regional Administrator (return receipt, Federal Express slip, etc. required for verification) [40 CFR 268.7(a)(4)(ii)]

Yes ___ No ___

Comments _____

4. Dilution Prohibition [40 CFR 268.22]

- a. Does the generator mix prohibited wastes with different treatment standards?

*See Appendix E for distinction between restricted and prohibited wastes.

Yes ___ No ___ (If No, go to b.)

List the wastes _____

Are the wastes amenable to the same type of treatment? [55 FR 22666]

Yes ☐ No ☐

Comments _____

- b. Does the generator dilute prohibited wastes to meet treatment standards criteria, or render them non-hazardous? [55 FR 22665]

Yes ☐ No ☒ (If No, go to c.)

Check appropriate category:

- ☐ Dilutes to meet treatment standards
☐ Dilutes to render waste non-hazardous

Do the wastes fall into the following categories? (Check if appropriate.) [40 CFR 268.3(b)]

- ☐ Managed in treatment systems regulated under the Clean Water Act
☐ Non-toxic* characteristic wastes
☐ Treatment standard specified in 40 CFR 268.41 or 268.43

*Non-toxic = D001(except high TOC nonwastewaters), D002, and D003(except cyanides and sulfides). [55 FR 22666]

If the wastes do not fall into the above categories, briefly describe the conditions under which they were diluted.

- c. Based on an assessment of a. and b., and any other relevant circumstances, does the generator dilute restricted wastes as a substitute for adequate treatment? [40 CFR 268.3(a)]

Yes ☐ No ☒ NA

Comments _____

5. F039 Multi-source leachate: Has the generator run an initial analysis for all constituents of concern in 40 CFR 268.41 and 268.43? [55 FR 22620]

Yes ☐ No ☐ NA ☒

C. Management

1. On-Site Management

- a. Is restricted waste treated (other than in a RCRA exempt unit), stored for greater than 90 calendar days, or transported off-site?

Yes ☐ No ☒

(If yes, the TSD Checklist must also be completed.)

* Small quantity generator = generator of greater than or equal to 100 kg/mo. but less than 1,000 kg/mo. hazardous waste, or less than 1 kg/mo. acutely hazardous waste

Comments _____

- b. If the generator treats characteristic wastes in systems regulated under the Clean Water Act, have the following been documented: the determination of restriction, how restricted wastes are managed, and why wastes discharged pursuant to an NPDES permit are not prohibited (if applicable)? [55 FR 22662]

Yes ___ No ___ NA ☒

- c. If the generator treats characteristic wastes in RCRA exempt units to render them non-hazardous, are the wastes managed as restricted until 40 CFR Part 268 treatment standards are met? * [40 CFR 268.9(d)]

Yes ___ No ___ NA ☒

*This applies to both concentration based treatment standards specified in 40 CFR 268.41 and 268.43, and to some 40 CFR 268.42 required methods which result in treatment below the characteristic level. See Appendix D.

2. Off-Site Management: Waste Exceeds Treatment Standards

- a. Does the generator ship any waste that exceeds treatment standards/prohibition levels to an off-site treatment or storage facility?

Yes ☒ No ___ (If No, go to 3.)

Identify waste code(s) and off-site treatment or storage facilities to which wastes are shipped.

Waste Code	Receiving Facility
F003	SAFETY-KLEEN
F005	" "
D001	" "

Does the generator provide a notification to the treatment or storage facility? [40 CFR 268.7(a)(1)]

ALSO INCLUDED IN SAFETY-KLEEN AGREEMENT

Yes ☒ No ___ (If No, go to 3.)

If the generator specifies alternative treatment standards for lab packs, is the certification required in 40 CFR 268.7(a)(7) or (8) included with the notification?

Yes ___ No ___ NA ☒

- b. Is a notification sent with each waste shipment?

Yes ☒ No ___

REPORT

If no, is the waste subject to a tolling agreement pursuant to 262.20(e) (small quantity generator only)? N/A

Yes ☐ No ☐ (If No, go to 3.)

List waste codes and subsequent handler with whom a contractual tolling agreement is held.

Waste Code	Subsequent Handler
_____	_____
_____	_____
_____	_____

Did the small quantity generator provide a notification to the receiving facility with the first waste shipment subject to the tolling agreement? [40 CFR 268.7(a)(9)] N/A

Yes ☐ No ☐

3. Off-Site Management: Waste Meets Treatment Standards

- a. Does the generator ship waste that meets treatment standards/prohibition levels to an off-site disposal facility?

Yes ☒ No ☐ (If No, go to 4.)

Identify waste code(s) and off-site disposal facilities:

Waste Code	Receiving Facility
<u>P022</u>	<u>_____</u>
<u>P025</u>	<u>_____</u>
<u>D001</u>	<u>_____</u>

Does the generator provide a notification and a certification to the disposal facility? [40 CFR 268.7(a)(2)(i) and 268.7(a)(2)(ii)]?

Yes ☒ No ☐ (If No, go to d.)

- b. Are a notification and a certification sent with each waste shipment?

Yes ☒ No ☐

If no, is the waste subject to a tolling agreement pursuant to 262.20(e) (small quantity generator only)? N/A

Yes ☐ No ☐ (If No, go to d.)

List waste codes and subsequent handler with whom a contractual tolling agreement is held.

Waste Code	Subsequent Handler
_____	_____
_____	_____
_____	_____

GEN

Did the small quantity generator provide a notification and a certification to the receiving facility with the first waste shipment subject to the tolling agreement? [40 CFR 268.7(a)(9)]

Yes ☐ No ☐

- c. Are characteristic wastes which have been rendered non-hazardous (in a RCRA exempt unit) shipped to a Subtitle D facility?

Yes ☐ No ☐ NA ☒ (If No or NA, go to 4.)

Complete the following table:

<u>Waste Code</u>	<u>Receiving Facility</u>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

Are a notification and a certification for each shipment sent to the Regional Administrator or authorized State? [40 CFR 268.9(d)(1) and 268.7(b)(5)(i)]?

Yes ☐ No ☐ NA ☒

4. Off-Site Management: Wastes Subject to Variances, Extensions, or Petitions

- a. Does the generator ship wastes to a treatment, storage, or disposal facility which are subject to a national capacity variance (40 CFR Part 268, Subpart C), or case-by-case extension (40 CFR 268.5)?

Yes ☐ No ☒ (If No, go to 5.)

Complete the following table:

<u>Waste Code</u>	<u>Receiving Facility</u>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

Does the generator provide notification to the off-site receiving facility that the waste is not prohibited from land disposal? [268.7(a)(3)]

Yes ☐ No ☐

Does the generator provide a waste shipment?

Yes ☐ No ☐

If yes, is the waste subject to a tolling agreement pursuant to 262.20(e) (small quantity generator only)?

Yes ☐ No ☐ (If No, go to 5.)

P

List waste codes and subsequent handler with whom a contractual tolling agreement is held.

Waste Code Subsequent Handler

Did the small quantity generator provide a notification to the receiving facility with the first waste shipment subject to the tolling agreement? [40 CFR 268.7(a)(9)]

Yes ____ No ____

5. Records Retention

Does the generator retain on site copies of all notifications, certifications, and other relevant documents for a period of 5 years? [40 CFR 268.7(a)(6)]

Yes ☒ No ____

Comments OK

Do these documents reflect proper management of wastes previously covered under expired national capacity variances and the soft hammer provision*?

Yes ____ No ____ NA ☒

*See Appendix C. Note that the soft hammer provision expired as of 05/08/90. Soft hammer wastes which had treatment standards established in the third third rule were granted a minimum 90-day national capacity variance to 08/03/90.

Comments _____

D. Treatment Using RCRA 40 CFR Parts 264 and 265 Exempt Units or Processes

1. Are restricted wastes treated in RCRA exempt units (i.e., boilers, furnaces, distillation units, wastewater treatment tanks, elementary neutralization, etc.)?

Yes ____ No ____ (If No, do not complete this section.)

List types of waste treatment units and processes:

Waste Code Type of Treatment Treatment Units and Processes

2. Are restricted wastes treated in RCRA exempt units (i.e., boilers, furnaces, distillation units, wastewater treatment tanks, elementary neutralization, etc.)?

Yes ____ No ____

Comments _____

Q

GEN. _____

3. Are residuals further treated, stored for greater than 90/180 days, or disposed on site?

Yes ____ No ____ NA ____

(If yes, the TST checklist must also be completed.)

DRAFT

QUALIFYING

FORD STERLING PLANT
F003

44 255 420



Safety-Kleen

80762 - R2271
FLUID RECOVERY SERVICE
CONTROL #: 027446

PRELIMINARY ANALYSIS - COMPLETE
CUSTOMER SURVEY
FLUID RECOVERY SERVICE * * *

RUN DATE 02/08/89
REVISED DATE 02/08/89
SAMPLE #: 057585

FORD STERLING PLANT
3900 MOUND RD.
STERLING HGTS MI 48076

FEDERAL EPA ID: COUNTY: MACOMB NATURE OF BUSINESS: MANF. PLANT
STATE EPA ID: MO. ID: ID: SIC #:
MANIFEST ADDRESS IS FACILITY MANIFEST TO

MATERIAL DESCRIPTION: MAINT THINNER
PROCESS DESCRIPTION: CLEANING
MATERIAL COMPOSITION (VOL%): MIN MAX TYPICAL
THINNER 100.0

VOLUME : 20 GALS PER MONTH
VOLUME ON HAND : 110
STORAGE CAPACITY : 55 IN DRUMS
SHIPPING FREQUENCY: 12WEEK IN DRUMS
COLOR : GREY
LAYERS : ONE
PHYSICAL STATE: LIQUID
VISCOSITY : LOW
WATER
NON-VOLATILE MATERIAL
SETTLED SOLIDS

RESTRICTED SUBSTANCES: NONE

HAZARDOUS MATERIAL DESCRIPTION: CUSTOMER REQUESTS
RE SHIPPING NAME: ASSISTANCE
EPA HAZARDOUS WASTE DESCRIPTION: CUSTOMER REQUESTS
ASSISTANCE

HAZARD CLASS: HAZARD NO.:

P.O. NO: TYPE OF SAMPLE: COMPOSITE
CONTACT: DAVE BRITTAIN TITLE: PLANT ENGINEER
SALESPERSON: FLUID RECOVERY SERVICES TERRITORY: 6666 BRANCH #: 406501 DATE: 01/12/89

LAB REVIEW: TRACKING INFO DATE FACILITY
ACCEPT SEG CODE: RELEASED: 02/03/89 RECEIVED: 01/20/89 SK TECHNICAL CENTER
ANALYST: JG REVIEWER: JG ANALYZED: 02/03/89
CORPORATE REVIEWS: DISPOSITION REVIEWER DATE HANDLING CODES:
TECHNICAL: ACCEPT UWH 02/07/89 502/750
REGULATORY: ACCEPT TAL 02/07/89
OPERATING: ACCEPT LWG 02/07/89

SK D.O.T. 1 UN1993 (EPA F003)

APPROVED FACILITIES: 654 SAFETY-KLEEN CORP 658 SAFETY-KLEEN CORP 658 SAFETY-KLEEN CORP
800 EAST 188TH ST
COLUMBIA, MO 65201
FEDERAL EPA NO: 100-100000
STATE EPA NO: 100-100000
100-100000

COMMENT: OK FOR FUEL PRELIMINARY

THIS SERVES AS NOTICE PER 40CFR284.12(b) THAT THE FACILITY IS NOTED ABOVE
HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

FLUID RECOVERY SERVICE
FORD STERLING PLANT

* * * FLUID RECOVERY SERVICE * * *

CONTROL #: 027445
SAMPLE #: 057585

GENERAL COMPOSITION VOL%:	GENERAL ANALYSIS: TOTAL SAMPLE	SPECIFIC GRAVITY AT 72 F 0.818
BY APPEARANCE	COLOR GREEN-GR	API GRAVITY 1.00
AQUEOUS PHASE: 0.0 %	WATER CONTENT 0.6 Wt%	FLAMMABILITY FLASHED AT 10
ORGANIC PHASE: 100.0 %	NON-VOLATILE 5.9 Wt%	BY SETAFASH
BOTTOM SLUDGE: 0.0 %	PH: EXTRACT 2.4 PAPER 7.0	RADIOACTIVITY N.D.
BOTTOM SOLID: 0.0 %	VISCOSITY <60 CPS	PCE N.D. < PPM

FUEL EVALUATION (WT%): TOTAL SAMPLE	AS-:	5 %
HEAT CONTENT: 17500 BTU/L		
CHLORINE: 1.2 %		

VOLATILE ORGANIC COMPOSITION: TOTAL SAMPLE		BY FID	UNITS	WEIGHT %
MINERAL SPIRITS, ALIPHATIC (C9-C13)	80.2	✓XYLENES		3.8
HEXANES	3.8	LOW BOILING ALIPHATIC HYDROCARBONS		2.3
TOLUENE	1.8	✓ACETONE		1.2
HEAVY ALIPHATIC HYDROCARBONS (C14-C20)	0.9	PROPYLENE GLYCOL METHYL ETHER ACETATE		0.8
PERCHLOROETHYLENE	0.7	PROPYL ALCOHOL 120-		0.7
PROPYL ACETATE, ISO-	0.6	✓METHYL ISOBUTYL KETONE		0.6
METHYL ALCOHOL	0.6	✓ETHYLBENZENE		0.6
ETHYL ACETATE	0.3	DIACETONE ALCOHOL		0.3
TRICHLOROETHANE, 1,1,1-	0.2	HEPTANES		0.2
ETHYL ALCOHOL	0.2	OCTANES		0.1
PROPYLENE GLYCOL METHYL ETHER	0.1			

SUMMARY: ALCOHOLS	1.8	KETONES	1.3	CHLORINATED SOLVENTS	0.9
ESTERS	1.7	ALIPHATIC HYDROCARBONS	97.5	AROMATIC HYDROCARBONS	6.2
NITROGEN COMPOUNDS	0.0	GLYCOL ETHERS	2.0	ETHERS	0.0
INHIBITORS	0.0	OTHERS	0.1	MISCELLANEOUS	0.0

ADDITIONAL ANALYTICAL INFO: NVR SOLID



ACCEPT

FLUID RECOVERY

NO ATTACHMENT

* * FLUID RECOVERY * *

CUSTOMER INFORMATION:

FORD STERLING
39000 MOUND RD
STERLING HEIGHTS MI 48078
MID 044 255 420

ATTN: DAVID W. BRITTAIN

BRANCH: 405501 DALE WALKOWIAK
NATURE OF BUSINESS: MFG
MANIFEST ADDRESS IS BILLING MANIFEST TO SAFETY-KLEEN

MATERIAL: <u>WASTE PAINT</u>		PROCESS: PAINTING	
VOLUME: 55 GALS PER QUARTER	VOLUME ON HAND: 55		
STORAGE CAPACITY: 55 IN DRUMS	SHIPPING FREQUENCY: 12 WKS IN DRUMS		
COLOR: OLIVE	LAYERS: ONE	PHYSICAL STATE: LIQUID	VISCOSITY: LOW

MATERIAL COMPOSITION(VOL%):	CODE	MIN	MAX	TYPICAL
PAINT	P	0.0		50.0
METHYL ETHYL KETONE	MEK	0.0		10.0
THINNER	T	0.0		40.0

RESTRICTED SUBSTANCES: NONE

D.O.T. HAZARDOUS MATERIAL: CUSTOMER REQUEST ASSISTANCE

HAZARDOUS WASTE: CUSTOMER REQUEST ASSISTANCE

P.O. NO:	BRANCH: 405501	DATE: 02/19/90
TYPE OF SAMPLE:	NUMBER OF DRUMS SAMPLED: 1	TAKEN BY: SALESREP
CONTACT: DAVID W. BRITTAIN	TITLE: ENVIRON SPECIALISTS	PHONE: 313-826-5718

CORPORATE REVIEWS:	DISPOSITION REVIEWER	DATE	HANDLING CODES: SO2/T50	PRICING CODE: F1
TECHNICAL:	ACCEPT	CAP 03/21/90		
REGULATORY:	ACCEPT	TAL 03/21/90		
OPERATING:	ACCEPT	DWH 03/22/90		

APPROVED FACILITIES:

(654) SAFETY-KLEEN CORP	(658) SAFETY-KLEEN CORP
633 EAST 138TH ST	STATE HWY 146
DOLTON IL 60419	NEW CASTLE KY 40050
FED EPA#: ILD980613913	KYD053348108
STATE EPA#: 0310690006	
TELEPHONE: 708/849-4850	502/845-2453
IL AUTH#: 000161	

APPROVED 0001167 DRUM OR BULK
DOT-EPA RQ WASTE PAINT RELATED MATERIAL
DESC. FLAMMABLE LIQUID UN1263
(FOOS) (ERG#26)

COMMENTS: OK FOR FUEL. FRS CAT I.

THIS SERVES AS NOTICE PER 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE
HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED

SAFETY-KLEEN CORP.
PREQUALIFICATION EVALUATION
MATERIAL ANALYSISPAGE 2 OF 2
COMPLETE: 03/22/90
CONTROL#: 0056218-1
SAMPLE#: 102570FLUID RECOVERY
FORD STERLINGACCEPT
NO ATTACHMENT

** FLUID RECOVERY **

GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR : GREEN/OFF WHITE
 WATER CONTENT : 0.5 WT%
 NON-VOLATILE RESIDUE : 13.4 WT% DESCRIPTION: SOLID
 FLAMMABILITY : FLASHED AT 140 F BY SETAFLASH
 FLAMMABILITY : FLASHED AT 100 F BY SETAFLASH
 PH : EXTRACT BY PAPER 7.0
 RADIOACTIVITY : NONE DETECTED

FUEL EVALUATION OF TOTAL SAMPLE

HEAT CONTENT: 17100 BTU/LB
 TOTAL CHLORINE CL: 0.1 WT%
 TOTAL FLUORINE F: < 0.1 WT%
 ASH UPON COMBUSTION: 3.4 WT%
 TOTAL BROMINE BR: < 0.1 WT%
 TOTAL SULFUR S: < 0.1 WT%

GENERAL COMPOSITION:

	SPECIFIC GRAVITY	VISCOSITY (CENTIPOISE)	GENERAL COMPOSITION BY:	
			APPEARANCE (VOL%)	TOTAL (WT %)
AQUEOUS PHASE (FREE WATER)			0.0	0.0
ORGANIC PHASE (FEEDSTOCK)			100.0	100.0
BOTTOM SLUDGE (SEMISOLIDS)			0.0	0.0
BOTTOM SOLID (SETTLED SOLIDS)			0.0	0.0
TOTAL	.850	< 50 CPS	100.0	100.0

SPECIFIC COMPOSITION OF TOTAL SAMPLE

	COMPOSITION OF:	TOTAL SAMPLE (WT%)	TOTAL SAMPLE (WT%)
WATER CONTENT		0.5	0.5
NON-VOLATILE RESIDUE	DESCRIPTION: SOLID	13.4	13.4
VOLATILE ORGANICS BY DIFFERENCE		86.1	86.1
TOTAL		100.0	100.0

VOLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY

SAMPLE PREPARATION METHODS: NEAT
 DETECTION METHODS : FID, FID, MASS-SPEC

COMPOUND NAME	CODE	CAS NUMBER	VOLATILE ORGANICS (WT%)	VOLATILE ORGANICS (WT%)	TOTAL SAMPLE (WT%)
MEDIUM-BOILING ALIPHATIC HYDROCARBONS (C9-C13)	MHC	8030-30-6	65.2	65.2	56.1
METHYL ETHYL KETONE	MEK	78-93-3	10.6	10.6	9.1
DIISOBUTYL KETONE	DIBK	108-83-8	7.9	7.9	6.8
XYLENES (ORTHO-, META-, AND PARA-)	XYLS	95-47-6	4.8	4.8	4.1
TOTAL OTHERS (<1.0% EACH)	TO	0-05-5	2.6	2.6	2.2
TOLUENE	TOL	108-88-3	2.3	2.3	2.0
METHYL ISOBUTYL KETONE	MIBK	108-10-1	2.1	2.1	1.8
LOW-BOILING ALIPHATIC HYDROCARBONS (C5-C8)	LHC	0-47-5	2.0	2.0	1.7
ETHYLBENZENE	ETB	CO-41-1	1.5	1.5	1.3
PROPYL ALCOHOL, ISO-	IPA	67-63-1	1.0	1.0	0.9
TOTAL			100.0	100.0	86.1

SUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

ALCOHOLS	1.0	ALIPHATIC HYDROCARBONS	67.2
AROMATIC HYDROCARBONS	8.6	CHLORINATED SOLVENTS	0.0
ESTERS	0.0	ETHERS	0.0
GLYCOL ETHERS	0.0	INHIBITORS	0.0
KETONES	20.6	NITROGEN COMPOUNDS	0.0

SPECIFIC ORGANIC COMPOSITION

CHLORINATED HYDROCARBONS: NONE DETECTED
 SAFETY-KLEEN REGULATED COMPOUNDS: DETECTED

ADDITIONAL ANALYTICAL INFORMATION: PHTHALIC ANHYDRIDE CAS #85449 < 1.0

LABORATORY REVIEW: A

LEVEL: SEG CODE: RELEASED: 03/21/90
 LAB REVIEWERS: CR OR ANALYZED: 03/20/90

TRACKING INFORMATION: DATE FACILITY
 SURVEY RECEIVED: 03/28/90 SK TECHNICAL
 SAMPLE RECEIVED: 03/21/90
 RESAMPLE SHIPPED:
 RESAMPLE RECEIVED:

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED UNDER 40 CFR PART 265.



(E)

Dear customer,

Thank you for considering Safety-Kleen Corporation as your chemical waste disposal firm. We have analyzed your waste(s) and copies of the analytical workup(s) are enclosed in this packet as well as a proposal indicating the cost per drum for our complete disposal service. Included also is your certificate of assurance, a scheduling calendar, and our standard waste handling agreement.

Since it has been a while since you first looked at Safety-Kleen's Fluid Recovery Service, let's review the highlights of our program. At regularly scheduled intervals a Safety-Kleen hazardous waste specialist will call upon your facility to locate drums of waste for disposal. If there is no waste ready for pick up there will be no charge for the call. If there is waste ready he will seal up the drum, make sure that all labels are in place and properly filled out. He will load the drums on one of our licensed hazardous waste transport vehicles and fill out the necessary manifests and land ban notifications. All waste will be transported to one of our Treatment, Storage, Disposal Facilities (TSDFs) for treatment and disposal. None of your waste will be disposed of through landfilling. All wastes will be disposed of through recycling, fuel blending incineration, or straight incineration as indicated on the proposal form.

Your company's financial assets are completely protected by our Certificate of Assurance, our written guarantee stating that we will operate to the full letter of the law and remain financially responsible for all cleanups involving our operations. We back that guarantee up with over \$400 million of assets.

Safety-Kleen Corporation is the world's largest recycler of contaminated solvents and enjoys a reputation in the hazardous waste industry as a true leader in service and reliability.

Anyone can take hazardous waste off your hands, only Safety-Kleen can take it off your mind. If peace of mind is important to you, Safety-Kleen's Fluid Recovery Service is the program that can provide it.

Thank you,

Branch Industrial Manager

(F)



**SAFETY-KLEEN CORPORATION
FLUID RECOVERY SERVICE
PROPOSAL**

COMPANY Ford Sterling
ADDRESS 39000 Mound Rd
CITY, STATE, ZIP Sterling Heights, MI 48078
PREPARED FOR David W. Brittain PHONE (313) 826-5718
DATE PREPARED 4-2-90

WASTE STREAM	SAMPLE #	CONTROL #	DISPOSAL METHOD	PRICE PER DRUM
<u>Waste Paint</u>	<u>102570</u>	<u>0056218</u>	<u>Fuel Blending</u>	<u>\$165.00</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

SERVICE INCLUDES;
REGULARLY SCHEDULED SERVICE CALLS EVERY twelve WEEKS
LABOR TO CHECK, SEAL, AND LOAD DRUMS ON TRUCK
ALL TRANSPORTATION
FINGERPRINT ANALYSES AT TSDFs
DISPOSAL AS INDICATED ABOVE
ALL LABELS, MANIFESTS, LAND BAN NOTIFICATIONS, AND ANY OTHER
NECESSARY PAPERWORK.

SAFETY-KLEEN BRANCH LOCATION 751 Orchard Lake Rd
Pontiac, MI 48040
PHONE NUMBER (313) 334-2320
CONTACT PERSON Raymond J. Primorato

9

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

TO: SAFETY-KLEEN CORP
633 EAST 138TH ST
DOLTON IL 60419

EPA ID No.: ILD980613913

Under manifest number _____ line number _____ (enter 11a, 11b, 11c, or 11d) the generator noted below is shipping to you a waste determined to be restricted under 40 CFR Part 268. In accordance with 40 CFR 268.7, the generator hereby provides notice that the waste is restricted and the EPA waste type and the appropriate treatment standards are as follows:

EPA Waste Type: F005

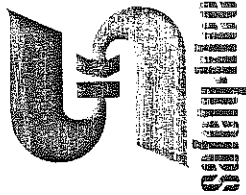
RESTRICTED CONSTITUENTS	TREATMENT STANDARDS (mg/l)		Check All That Apply
	Wastewater w/Solvents	All Other Solvent Waste	
Acetone	0.05	0.59	_____
n-Butyl alcohol	5.0	5.0	_____
Carbon disulfide	1.05	4.81	_____
Carbon tetrachloride	0.05	0.96	_____
Chlorobenzene	0.15	0.05	_____
Cresols (and cresylic acid)	2.82	0.75	_____
Cyclohexanone	0.125	0.75	_____
1,2-dichlorobenzene	0.68	0.125	_____
Ethyl acetate	0.05	0.75	_____
Ethyl benzene	0.05	0.053	<u>X</u>
Ethyl ether	0.05	0.75	_____
Isobutanol	5.0	5.0	_____
Methanol	0.25	0.75	_____
Methylene chloride	0.20	0.96	_____
Methylene chloride (from pharmaceutical industry)	12.7	0.96	_____
Methyl ethyl ketone	0.05	0.75	<u>X</u>
Methyl isobutyl ketone	0.05	0.33	<u>X</u>
Nitrobenzene	0.66	0.125	_____
Pyridine	1.12	0.33	_____
Tetrachloroethylene	0.079	0.05	_____
Toluene	1.12	0.33	<u>X</u>
1,1,1-Trichloroethane	1.05	0.41	_____
1,1,2-Trichloro - 1,2,2 trifluoroethane	1.05	0.96	_____
Trichloroethylene	0.062	0.091	_____
Trichlorofluoromethane	0.05	0.96	_____
Xylene	0.05	0.15	<u>X</u>
Halogenated Organic Compounds	1000.0	1000.0	_____
Free Cyanides	1000.0	1000.0	_____
Arsenic (As)	500.0	500.0	_____
Cadmium (Cd)	100.0	100.0	_____
Chromium (Cr VI)	500.0	500.0	_____
Lead (Pb)	500.0	500.0	_____
Mercury (Hg)	20.0	20.0	_____
Nickel (Ni)	100.0	100.0	_____
Selenium (Se)	100.0	100.0	_____
Thallium (Tl)	100.0	100.0	_____

Generator Name FORD STERLING EPA ID: _____

Generator Representative Signature: _____

Name _____ Title _____ Date of Issue _____

Site Sample Number 100570 CONTROL # 3058218



No: 380154

Date 4-2-90

Clear Solutions to Contaminated Fluid Problems

Certificate of Assurance

Ford Sterling

Safety-Kleen Corp. provides solvents for use in our equipment and in customer owned equipment. Safety-Kleen Corp. also provides solvents, fluids and used oils from its customers premises for processing. Safety-Kleen Corp. agrees to its customers that we assume responsibility for proper disposal of these solvents, fluids and used oils.

- We agree to remove waste fluids from your facility.
- We agree to transport, store, recycle and dispose of the contaminated fluids we remove in accordance with all applicable state and Federal laws.
- In the event a spill occurs while we are transporting, storing, recycling or disposing of your contaminated fluids, we will pay all costs and expenses of clean-up of that spill.
- In the event ground or water pollution results from our transporting, storing, recycling, reclaiming, re-refining or disposal of your contaminated fluids, we will pay all costs and expenses to remedy that pollution.

While no one can fully relieve your firm of its own "cradle-to-grave" responsibility as a generator of hazardous waste, this certificate is your assurance that our handling of your contaminated fluids will be in the most economical and ecologically sound manner available.

SAFETY-KLEEN CORP.

Donald W. Brinkman
Donald W. Brinkman
President

Over \$500,000,000 in Assets
NYSE Symbol: (SK)
DGB Rating: 5A1

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Form 91445

11

FORS MOTOR CO. STERLING
AXLE PLANT

MID 044 255 520

(H)

OCT 1 1990

D 001

Rec'd 10-28-90

Parts Washer Solvent Wastes

Physical Properties and TCLP Metals Analysis

Parameter	Reg. Limit	GM	SG	FP	As	Ba	Cd	Cr	Pb	Hg	Mn	Au
W DE	<2 or >10	na	na	<100	5	100	1	5	1	0.2	1	5
W EL												
W HE												
M LE												
M MA												
C RE												
W DE		5.5	0.79	125	<0.5	0.51	0.041	<0.01	0.47	<0.001	<0.01	<0.01
W EL		6.5	0.799	110	<0.05	0.8	<0.05	<0.05	1.3	<0.01	<0.05	<0.05
W HE		7	0.777	151	<0.05	0.8	0.08	<0.05	0.8	<0.01	<0.05	<0.05
M LE		6.5	0.775	95	<0.05	1.2	0.07	<0.05	1.2	<0.01	<0.05	<0.05
M MA		6	0.78	115	<0.5	0.27	0.055	<0.01	0.74	0.002	<0.01	<0.01
C RE		8.5	0.8	110	<0.5	<1.0	0.059	0.017	1.8	0.0014	<0.01	<0.01
		8	0.79	78	<1	0.09	0.05	<0.02	0.8	<0.002	<0.01	<0.01

PRELIMINARY RESULTS



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48058
Tel: (313) 253-0440
Fax: (313) 334-8486



Formerly: Burmah Technical Services, Inc.

MIN-HRZ

ANALYTICAL REPORT

Dave Brittain

08-17-90

FMC STERLING PLANT

MID 044 255 425

39000 Mound Rd & 17 Mile R

Sample No.: 76788

Sterling Heights MI 48078

Sample Description: Lapping Sludge North

Program: Waste Characterization

cc: H Hildinger

Date Taken: 07-19-90

Date Received: 07-19-90

25 yd³ / LOAD
6,400 yd³ / yr.

Parameter	Results	Units	Date Analy.	Lab Tech
Solids, Total	95.	%	07-26-90	gls
TCLP - VOLATILES (8240)			08-06-90	wad
Benzene	<0.1	mg/L	08-06-90	wad
Carbon tetrachloride	<0.1	mg/L	08-06-90	wad
Chlorobenzene	<0.1	mg/L	08-06-90	wad
Chloroform	<0.1	mg/L	08-06-90	wad
1,2-Dichloroethane	<0.1	mg/L	08-06-90	wad
1,1-Dichloroethene	<0.1	mg/L	08-06-90	wad
Methyl ethyl ketone	<0.1	mg/L	08-06-90	wad
Tetrachloroethene	<0.1	mg/L	08-06-90	wad
Trichloroethene	<0.1	mg/L	08-06-90	wad
Vinyl chloride	<0.1	mg/L	08-06-90	wad
TCLP - METALS				
Arsenic	<1.0	mg/L	08-03-90	dls
Barium	0.92	mg/L	08-03-90	lv
Cadmium	<0.01	mg/L	08-03-90	lv
Chromium	<0.02	mg/L	08-03-90	lv
Copper	0.07	mg/L	08-03-90	lv
Lead	<0.05	mg/L	08-03-90	lv
Mercury	<0.0005	mg/L	08-03-90	lv
Nickel	0.07	mg/L	08-03-90	lv
Selenium	<0.5	mg/L	08-03-90	lv
Silver	<0.02	mg/L	08-03-90	lv
Zinc	0.09	mg/L	08-03-90	lv

Susan E. Scott
Project Manager



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TESTING, INC.

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Pontiac, MI 48058
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Fax: (313) 334-8486

(K)

Formerly: Burmah Technical Services, Inc.

ANALYTICAL REPORT

Dave Brittain
FMC STERLING PLANT
39000 Mound Rd & 17 Mile R
Sterling Heights MI 48078

08-17-90

Sample No.: 76788

Sample Description: Lapping Sludge North

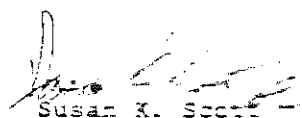
Program: Waste Characterization
cc: H Hildinger

Date Taken: 07-19-90

Date Received: 07-19-90

TCLP-BASE/NEUTRALS (8270)

Parameter	Results	Units	Date Analy.	Lab Tech
TCLP - ACIDS (8270)			08-11-90	wad
1,4-Dichlorobenzene	<0.01	mg/L	08-11-90	wad
2,4-Dinitrotoluene	<0.01	mg/L	08-11-90	wad
Hexachlorobenzene	<0.01	mg/L	08-11-90	wad
Hexachlorobutadiene	<0.01	mg/L	08-11-90	wad
Hexachloroethane	<0.01	mg/L	08-11-90	wad
Nitrobenzene	<0.01	mg/L	08-11-90	wad
Pyridine	<0.01	mg/L	08-11-90	wad
Cresols, Total	<0.01	mg/L	08-11-90	wad
o-Methylphenol (Cresol)	<0.01	mg/L	08-11-90	wad
m-Methylphenol (Cresol)	<0.01	mg/L	08-11-90	wad
p-Methylphenol (Cresol)	<0.01	mg/L	08-11-90	wad
Pentachlorophenol	<0.01	mg/L	08-11-90	wad
2,4,6-Trichlorophenol	<0.01	mg/L	08-11-90	wad
2,4,5-Trichlorophenol	<0.01	mg/L	08-11-90	wad


Susan K. Scott -
Project Manager



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Formerly: Burmah Technical Services, Inc.

ANALYTICAL REPORT

Dave Brittain
FMC STERLING PLANT
39000 Mound Rd & 17 Mile R
Sterling Heights MI 48078

08-17-90

Sample No.: 76789

Sample Description: Lapping Sludge South

Program: Waste Characterization
cc: H Hildinger

Date Taken: 07-19-90

Date Received: 07-19-90

Parameter	Results	Units	Date Analy.	Lab Tech
Solids, Total	94.	%	07-26-90	gls
TCLP - VOLATILES (8240)			08-09-90	wad
Benzene	<0.1	mg/L	08-09-90	wad
Carbon tetrachloride	<0.1	mg/L	08-09-90	wad
Chlorobenzene	<0.1	mg/L	08-09-90	wad
Chloroform	<0.1	mg/L	08-09-90	wad
1,2-Dichloroethane	<0.1	mg/L	08-09-90	wad
1,1-Dichloroethene	<0.1	mg/L	08-09-90	wad
Methyl ethyl ketone	<0.1	mg/L	08-09-90	wad
Tetrachloroethene	<0.1	mg/L	08-09-90	wad
Trichloroethene	<0.1	mg/L	08-09-90	wad
Vinyl chloride	<0.1	mg/L	08-09-90	wad
TCLP - METALS				
Arsenic	<1.0	mg/L	08-03-90	dlc
Barium	0.43	mg/L	08-03-90	lv
Cadmium	<0.01	mg/L	08-03-90	lv
Chromium	<0.02	mg/L	08-03-90	lv
Copper	0.04	mg/L	08-03-90	lv
Lead	<0.05	mg/L	08-03-90	lv
Mercury	<0.0005	mg/L	08-03-90	jbb
Nickel	0.08	mg/L	08-03-90	lv
Selenium	<0.5	mg/L	08-03-90	dlc
Silver	<0.02	mg/L	08-03-90	lv
Zinc	0.11	mg/L	08-03-90	lv

Susan K. Scott
Project Manager



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398 Auburn Avenue
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M

Formerly: Burmah Technical Services, Inc.

ANALYTICAL REPORT

Dave Brittain
FMC STERLING PLANT
39000 Mound Rd & 17 Mile R
Sterling Heights MI 48078

08-17-90

Sample No.: 76789

Sample Description: Lapping Sludge South

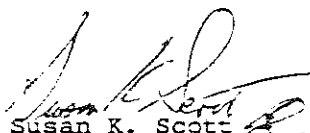
Program: Waste Characterization
cc: H Hildinger

Date Taken: 07-19-90

Date Received: 07-19-90

TCLP-BASE/NEUTRALS (8270)

Parameter	Results	Units	Date Analy.	Lab Tech
TCLP - ACIDS (8270)			08-11-90	wad
1,4-Dichlorobenzene	<0.03	mg/L	08-11-90	wad
2,4-Dinitrotoluene	<0.03	mg/L	08-11-90	wad
Hexachlorobenzene	<0.03	mg/L	08-11-90	wad
Hexachlorobutadiene	<0.03	mg/L	08-11-90	wad
Hexachloroethane	<0.03	mg/L	08-11-90	wad
Nitrobenzene	<0.03	mg/L	08-11-90	wad
Pyridine	<0.03	mg/L	08-11-90	wad
Cresols, Total	<0.03	mg/L	08-11-90	wad
o-Methylphenol (Cresol)	<0.03	mg/L	08-11-90	wad
m-Methylphenol (Cresol)	<0.03	mg/L	08-11-90	wad
p-Methylphenol (Cresol)	<0.03	mg/L	08-11-90	wad
Pentachlorophenol	<0.03	mg/L	08-11-90	wad
2,4,6-Trichlorophenol	<0.03	mg/L	08-11-90	wad
2,4,5-Trichlorophenol	<0.03	mg/L	08-11-90	wad


Susan K. Scott
Project Manager



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48058
Tel: (313) 253-0440
Fax: (313) 334-8486

(N)

Formerly: Burmah Technical Services, Inc.

WASTE ANALYSIS

METHODOLOGY

	Detection <u>Limit</u>	<u>Method</u>
BS&W, %	1.	D-96 (2)
BTU/lb	200.	D240-64 (2)
Cyanide, mg/Kg	1.	9010 (1)
Density, g/cc	0.5	Pt 17 C-357 (2)
Sulfide, mg/Kg	2.	376.2 (3)
Total Halogens, mg/Kg	120.	D808-91 (2)
TPH, mg/Kg	20.	418.1 (3)
	50.	503 E (4)
Water, Distillation, %	0.1	D-95 (2)
Solids, Total, %	0.1	160.3 (3)
Corrosivity	--	9040 (1)
Ignitability, F	75.	1010 (1)
Reactive Sulfide, mg/Kg	2.	Sec. 7.3.4.1 (1)
Reactive Cyanide, mg/Kg	1.	Sec. 7.3.3.1. (1)
Reactivity - Water	--	Sec. 7.3.2.1 (1)
Acid	--	Sec. 7.3.2.1 (1)
Alkali	--	Sec. 7.3.2.1 (1)
PCB, mg/Kg	1.	8080 (1)

	TCLP /EP Toxicity <u>mg/L</u>	As Received <u>mg/Kg</u>	
Arsenic	1.	0.4	7061 (1)
Barium	0.05	1.8	6010 (1)
Cadmium	0.01	0.4	6010 (1)
Chromium	0.02	0.7	6010 (1)
Copper	0.02	0.7	6010 (1)
Lead	0.05	1.8	6010 (1)
Mercury	0.0005	0.02	7471 (1)
Nickel	0.02	0.7	6010 (1)
Selenium	0.5	0.4	7741 (1)
Silver	0.02	0.7	6010 (1)
Zinc	0.02	0.7	6010 (1)

- (1) EPA SW846, "Test Methods for Evaluating Solid Wastes".
- (2) ASTM, "American Society for Testing Materials".
- (3) EPA 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes".
- (4) "Standard Methods for the Examination of Water and Wastewater", 16th Edition.

**GRAB SAMPLING
FIELD NOTES AND OBSERVATIONS**

76788-789

(0)

Account: FORD STERLING Date: 7/19/90
 Field Personnel: RALEIGH Observers: BECKY MESSIG
 Weather: SUNNY, 90 Time on Site: 10:00 - 11:00

Sample I.D.	Type and Description of Containment	Sampling Method	Sample Bottle	Sample Description
LAPPING SLUDGE NORTH	SLUDGE PILE	DIRECT	SLUDGE JAR, COLD CREAM	DARK, OILY SOLID
LAPPING SLUDGE SOUTH	SLUDGE PILE	DIRECT	SLUDGE JAR, COLD CREAM	DARK, OILY SOLID

Comments:

Chain of Custody: Relinquished By: [Signature] Date: 7/19/90
 Received By: Rosemary G. Valentin Date: 7/20/90